

G. MARSHALL HANN

Attorney & Counselor at Law

24300 Town Center Drive
Suite 300

Valencia, CA 91355

Telephone (661) 255-3600

Facsimile (661) 255-3859

E-mail gmarlaw2002@yahoo.com

September 6, 2006

Kim Muratore
Case Developer (SFD-7-B)
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

*Re: Response to General Notice Letter/104(e) for the San Fernando
Valley/North Hollywood Superfund Site, North Hollywood, California*
*Subject Property Address : 11433, 11437 and 11447
Vanowen St.,
North Hollywood, CA*
My clients : Erasmo and Nora Dominguez

Dear Ms. Muratore:

In response to your April 25, 2006 letter, which my clients belatedly received in California from a kind neighbor in Florida who forwarded it, we are responding to the various questions regarding the subject properties as follows. Please be advised that tax information furnished to your office and information concerning my client's Trust and business documents are considered "confidential" as to all enclosed documents. Nevertheless, we are sending them along as part of our cooperation in your investigation. We will provide further responses after all documents have been received from my client.

1) Erasmo C. Dominguez and Nora C. Dominguez, 11447 Vanowen Street, North Hollywood, CA (818) 982-9189. I am also assisted by my attorney G. Marshall Hann, 24300 Town Center Drive, Suite 300, Valencia, CA 91355 (661) 255-3600.

- 2) a) A copy of the Trust is attached ("1").
b) There are no updates to the Trust documents
c)
d) The Trust was created [FX-6 Personal Privacy] and Federal and State Income Tax Returns have not yet been filed for the Trust
e) The current Trustee is Eric C. Dominguez at [FX-6 Personal Privacy]

FX-6 Personal Privacy

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- 3)
 - a) A copy of the NC Family Limited Partnership is attached ("2").
 - b) There are no amendments to date
 - c) 11433 Vanowen Street, North Hollywood, CA. The current market value of this asset is not known.
 - d) The NC Family Limited Partnership was created in 2005 and has not yet filed Federal or State Income Tax Returns

- 4)
 - a) A copy of the NCII Family Limited Partnership is attached ("3").
 - b) There are no amendments to date
 - c) 11433 Vanowen Street, North Hollywood, CA. The current market value of this asset is not known.
 - d) The NCII Family Limited Partnership was created in 2005 and has not yet filed Federal or State Income Tax Returns

- 5)
 - a) _____
 - b) The Assessor Parcel No. for NC Family Limited Partnership is 2320-003-013
 - c) A copy of the change of ownership exclusion RNT Code 62(a) is attached ("4"). Copies of the Quit Claim in connection with NCII Family Limited Partnership are attached ("5")
 - d) The current owners and addresses of the subject properties is the Dominguez, as stated above.
 - e) Since the purchase by Dominguez, they have operated BJM Corporation from approximately 1998 through April 2006. The business name changed to Custom Media Services, Inc.
 - f) Both BJM and the new business name of Custom Media Services, Inc., are in the same business of replicating CD's and the preparation and recording of custom CD's. These business have operated at the location since the property was purchased by Dominguez.
 - g) As to BJM, Erasmo Dominguez is President and Treasurer. Nora Dominguez was Vice President and Secretary. As to Custom Media Services, Inc., Erasmo Dominguez is the sole Director, Officer and Owner.

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- 6) a) _____
b) _____
c) _____
d) The current and last known address of the parcel owners are the Dominguez, at the address and phone number stated above.
e) There is no rental agreement between the Dominguez and their company
f) Both BJM and the new business name of Custom Media Services, Inc., are in the same business of replicating CD's and the preparation and recording of custom CD's. These business have operated at the location since the property was purchased by Dominguez.
g) As to BJM, Erasmo Dominguez is President and Treasurer. Nora Dominguez was Vice President and Secretary. As to Custom Media Services, Inc., Erasmo Dominguez is the sole Director, Officer and Owner.
- 7) a) _____
b) _____
c) _____
d) The current and last known address of the parcel owners are the Dominguez, at the address and phone number stated above.
e) There is no rental agreement between the Dominguez and their company
f) Both BJM and the new business name of Custom Media Services, Inc., are in the same business of replicating CD's and the preparation and recording of custom CD's. These business have operated at the location since the property was purchased by Dominguez.
g) As to BJM, Erasmo Dominguez is President and Treasurer. Nora Dominguez was Vice President and Secretary. As to Custom Media Services, Inc., Erasmo Dominguez is the sole Director, Officer and Owner.
- 8) Erasmo C. Dominguez, the owner of the property, who can be reached at 11447 Vanowen Street, Hollywood, CA (818) 982-9210.

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9) Fleetwood Machine Products, Inc. The exact dates and length of time of ownership are not known. Presumably, Fleetwood owned and operated the company until the property was sold to Dominguez. Documents reviewed in the action of United States of America v. Allied-Signal, et al. Civil No. 93-6490-MRP (Tx), Partial Consent Decree also reveals the names of William L. Cooke and Jerry Conrow as Trustees for the Amended Cooke Family Trust. These may be additional property owners prior to Dominguez' purchase.

- a) The dates of ownership are not known. Whatever ownership interest they had ended when Dominguez purchased the property.
- b) The prior owner was a machine shop
- c) We have no such evidence under our possession, custody or control
- d) The prior Partial Consent Decree involving the United States of America. There is also a Corrective Action Plan for Fleetwood Machine Products, Inc. ("6"), at 11447 Vanowen Street that was submitted to the California Regional Quality Control Board on or about March 15, 1999.

10) Erasmo C. Dominguez was aware that Fleetwood Machinery was in the process of cleaning up hazardous products prior to the sale to Dominguez. Dominguez was assured that the cleanup had been completed and there were no further issues relating to hazardous substances.

- a) As to any employees of Fleetwood who have knowledge, those names would be included in the Partial Consent Decree referenced above.
- b) Unknown by this property owner
- c) Unknown by this property owner
- d) Unknown by this property owner
- e) Unknown by this property owner

11) That information is unknown by this property owner in connection with Fleetwood Machinery. There is no manufacturing currently ongoing by the Dominguez in relation to the property. The nature of the business is completely different than what was operated at the location before.

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12) The Dominguez's have no map of the facility responsive to this question or subparts (a) through (f).

13) There are no documents responsive to this category that has been submitted by the Dominguez on behalf of themselves, the Family Trust, any limited partnerships or any corporations that have operated from the facility.

14) Neither the Dominguez, the Family Trust, the limited partnership or any of the corporations that have done business from the location are utilizing or have utilized during the ownership by them of any hazardous chemicals or substances.

15) Neither the Dominguez, the Family Trust, the limited partnership or any of the corporations that have done business from the location are utilizing or have utilized during the ownership by them of any hazardous chemicals or substances.

16) Neither the Dominguez, the Family Trust, the limited partnership or any of the corporations they have owned or used to operate the duplication business, has submitted any environmental, technical, or analytical information responsive to this category. As to the prior owner, Fleetwood Machinery, Dominguez is only aware of the Corrective Action Plan dated March 15, 1999 ("6"), submitted to the California Regional Quality Board.

17) The current property owners are not aware of any ground water wells located at the facility.

18) All insurance policies in connection with the Dominguez, their Family Trust, limited partnership or company's ownership or use of the property, will be sent went received

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19) The only permits relating to the current owners of the property involve business operating permits, will be provided.

20) There has been no discharge of any waste stream to the sewer by the current owners of the properties.

21) Not applicable.

22) There have been none.

23) Fleetwood Machine Products, Inc.

24) The pre-treatment procedures performed by the prior owners are not known to the current owners beyond the Corrective Action Plan ("6") that was submitted to the California Regional Quality Control Board on or about March 15, 1999.

25) The pre-treatment procedures performed by the prior owners are not known to the current owners beyond the Corrective Action Plan ("6") that was submitted to the California Regional Quality Control Board on or about March 15, 1999.

26) The current owners do not know of the waste, if any, that were stored at the facility prior to their purchase.

27) There have been no leaks, spills or other environmental releases since the current property owners acquired the subject properties.

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28) The only correspondence is by attorney G. Marshall Hann with the Environmental Protection Agency on the subject of this property.

Very truly yours,

Law Offices

G. MARSHALL HANN

By: 

G. MARSHALL HANN

GMH:cas
enclosures

cc: Client

FX-4 CBI/Trade Secret

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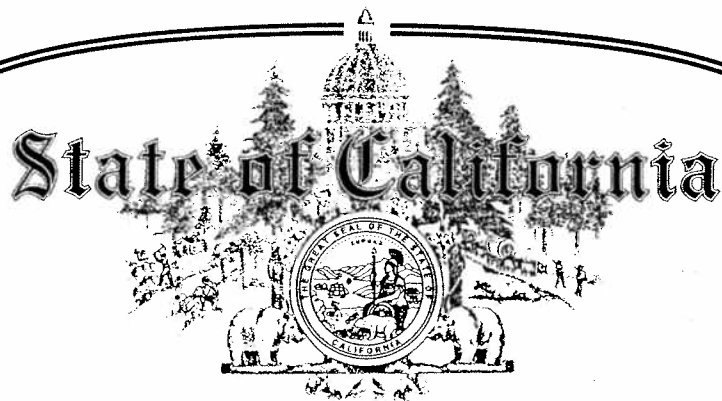
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SECRETARY OF STATE

I, *Kevin Shelley*, Secretary of State of the State of California, hereby certify:

That the attached transcript of 1 page(s) has been compared with the record on file in this office, of which it purports to be a copy, and that it is full, true and correct.

IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this day of

JAN 25 2005



Kevin Shelley
Secretary of State



State of California

Kevin Shelley
Secretary of State

File # 200502000008

ENDORSED - FILED
in the office of the Secretary of State
of the State of California

JAN 18 2005

KEVIN SHELLEY
Secretary of State

CERTIFICATE OF LIMITED PARTNERSHIP

A \$70.00 filing fee must accompany this form.

IMPORTANT - Read instructions before completing this form.

This Space For Filing Use Only

ENTITY NAME (End the name with the words "Limited Partnership" or the abbreviation "L.P.")

1. NAME OF LIMITED PARTNERSHIP
N.C. II FAMILY LIMITED PARTNERSHIP

PRINCIPAL EXECUTIVE OFFICE ADDRESS (Do not abbreviate the name of the city. Item 2 cannot be a P.O. Box.)

2. STREET ADDRESS CITY AND STATE ZIP CODE
26505 JOSEL DRIVE SANTA CLARITA, CA 91387

COUNTY INFORMATION (Complete Item 3 only if the limited partnership was formed in California prior to July 1, 1984 and has elected to be governed by the California Revised Limited Partnership Act.)

3. THE ORIGINAL LIMITED PARTNERSHIP CERTIFICATE WAS RECORDED ON WITH THE RECORDER
OF COUNTY. FILE OR RECORDATION NUMBER

AGENT FOR SERVICE OF PROCESS (If the agent is an individual, the agent must reside in California and both items 4 and 5 must be completed. If the agent is a corporation, the agent must have on file with the California Secretary of State a certificate pursuant to Corporations Code section 1505 and Item 4 must be completed (leave Item 5 blank).)

4. NAME OF AGENT FOR SERVICE OF PROCESS
ERASMO C. DOMINGUEZ

5. IF AN INDIVIDUAL, ADDRESS OF AGENT FOR SERVICE OF PROCESS IN CALIFORNIA CITY STATE ZIP CODE
26505 JOSEL DRIVE SANTA CLARITA CA 91387

GENERAL PARTNERS (Enter the names and addresses of all of the general partners. Attach additional pages, if necessary.)

6a. NAME ADDRESS CITY AND STATE ZIP CODE
ERASMO C. DOMINGUEZ 26505 JOSEL DRIVE SANTA CLARITA, CA 91387

6b. NAME ADDRESS CITY AND STATE ZIP CODE
NORA C. DOMINGUEZ 26505 JOSEL DRIVE SANTA CLARITA, CA 91387

GENERAL PARTNER SIGNATORY REQUIREMENTS

7. INDICATE THE NUMBER OF GENERAL PARTNERS' SIGNATURES REQUIRED FOR FILING CERTIFICATES OF AMENDMENT, RESTATEMENT, MERGER, DISSOLUTION, CONTINUATION, CANCELLATION AND CONVERSION OR DOCUMENTS CONTAINING A STATEMENT OF CONVERSION. 2

ADDITIONAL INFORMATION

8. ADDITIONAL INFORMATION SET FORTH ON THE ATTACHED PAGES, IF ANY, IS INCORPORATED HEREIN BY THIS REFERENCE AND MADE PART OF THIS CERTIFICATE.

EXECUTION

9. I DECLARE I AM THE PERSON WHO EXECUTED THIS INSTRUMENT, WHICH EXECUTION IS MY ACT AND DEED.

SIGNATURE OF AUTHORIZED PERSON

01-13-05
DATE

SIGNATURE OF AUTHORIZED PERSON

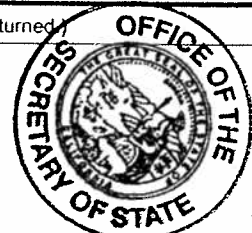
01-13-05
DATE

ERASMO C. DOMINGUEZ, GENERAL PARTNER
TYPE OR PRINT NAME AND TITLE OF AUTHORIZED PERSON

NORA C. DOMINGUEZ, GENERAL PARTNER
TYPE OR PRINT NAME AND TITLE OF AUTHORIZED PERSON

RETURN TO (Enter the name and the address of the person or firm to whom a copy of the filed document should be returned)

10. NAME [THOMAS R. LEE, ESQ.]
FIRM SENIOR LAW PRACTICE GROUP
ADDRESS 6700 FALLBROOK AVENUE, SUITE 221
CITY/STATE/ZIP [WEST HILLS, CALIFORNIA 91307]



0160

Application for Employer Identification Number

(For use by employers, corporations, partnerships, trusts, estates, churches,
government agencies, Indian tribal entities, certain individuals, and others.)

EIN

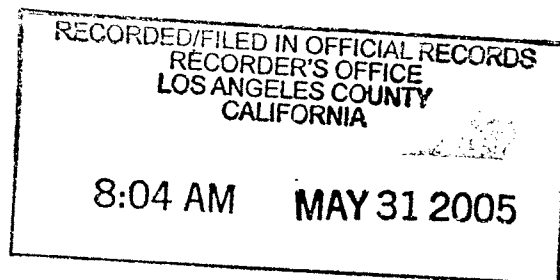
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OMB No. 1545-0003

FX-4 CBI/Trade Secret

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05 1264206



TITLE(S) : DEED



FEE

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2	

D.T.T

CODE
20

CODE
19

CODE
9

NOTIFICATION SENT-\$4

Assessor's Identification Number (AIN)

To be completed by Examiner OR Title Company in black ink.

Number of AIN's Shown

2320 - 003 - 014

002

THIS FORM NOT TO BE DUPLICATED

0162

ERASMO C. DOMINGUEZ
NORA C. DOMINGUEZ
26505 JOSEL DRIVE
SANTA CLARITA, CALIFORNIA 91387

05 1264206

APN# 2320-003-014 & 2320-003-015

SPACE ABOVE THIS LINE FOR RECORDER STAMP

QUITCLAIM DEED

THE UNDERSIGNED GRANTOR(s) DECLARE(s)

DOCUMENTARY TRANSFER TAX is \$-0- CITY TAX \$-0-

computed on full value of property conveyed, or computed on full value less value of liens or encumbrances remained at time of sale,

Unincorporated area: City of: LOS ANGELES, and

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ, Trustee(s) of THE ERASMO C. AND NORA C. DOMINGUEZ FAMILY TRUST, DATED: JANUARY 13, 2005, hereby remises, releases and forever quitclaims to THE N.C. II FAMILY LIMITED PARTNERSHIP, the following described real property in the City of NORTH HOLLYWOOD, County of LOS ANGELES, State of California.

LEGAL DESCRIPTION ATTACHED PER EXHIBIT "A"

* commonly known as: 11437 and 11447 VANOWEN STREET, NORTH HOLLYWOOD, CALIFORNIA 91605

The undersigned grantor(s) declares: The grantor(s) and the grantee(s) in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property, R & T 11923(d). There is no consideration for this transfer and it is excluded from reappraisal under Proposition 13, I.E., California Const. 13A, Section 1, et seq.

Dated 04-13-05

Erasmus C. Dominguez
ERASMO C. DOMINGUEZ

Dated 04-13-05

Nora C. Dominguez
NORA C. DOMINGUEZ

NOTARY PUBLIC

STATE OF CALIFORNIA

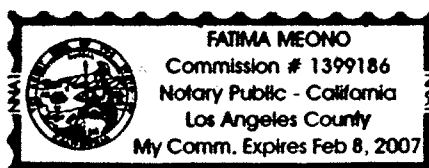
COUNTY OF Los Angeles) ss.

On April 13, 2005 before me Fatima Meono, Notary Public

personally appeared ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ, personally known to me (or proved to me on the basis of satisfactory evidence) to be person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal:

Signature [Signature]



Mail Tax Statements to:

Name: ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ 26505 JOSEL DRIVE SANTA CLARITA, CALIFORNIA 91387

(this area for official notarial stamp)

0163

3
05 1264206

EXHIBIT "A"

Parcel 1.

The East 55 feet of the East 225 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq., of Miscellaneous Records, in the office of the County Recorder of said County

EXCEPT the South 25 feet thereof included in Vanowen Street

Parcel 2

The East 50 feet of the West 170 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the East 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq., of the Miscellaneous Records of the office of the County Recorder of said County

EXCEPT the Southerly 25 feet thereof included in Vanowen Street

Parcel 3

The East 54 72 feet of the West 279 72 feet, (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq., of the Miscellaneous Records of the office of the County Recorder of said County

EXCEPT the Southerly 25 feet thereof included in Vanowen Street



RICK AUERBACH • ASSESSOR
 500 WEST TEMPLE STREET
 LOS ANGELES, CALIFORNIA 90012-2770
 lacountyassessor.com
 888.807.2111



July 21, 2005

N.C. FAMILY LIMITED PARTNERSHIP
 26505 JOSEL DR
 SANTA CLARITA CA 91387
 ATTN: ERASMO DOMINGUEZ

Assessor Identification #: 2320-003-013

Property Location: 11433 VANOWEN ST
 NORTH HOLLYWOOD CA

CHANGE OF OWNERSHIP EXCLUSION R&T CODE 62(a)

A claim for Change of Ownership Exclusion requires the taxpayer to submit substantiating documentation proving that the transaction(s) meet the legal requirements of Revenue and Taxation Code 62(a).

You are requested to provide the following information/documentation. Documents submitted by a legal entity should be certified.

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Partnership Agreement(s) | 5. <input type="checkbox"/> First Corporate Minutes |
| 2. <input type="checkbox"/> Stock Register | 6. <input type="checkbox"/> Trust Agreement(s) |
| 3. <input type="checkbox"/> Stock Certificate(s) Issued and the next unissued stock certificate | 7. <input type="checkbox"/> Corporate or Partnership Tax Returns, including schedule K-1 for year(s) |
| 4. <input type="checkbox"/> Articles of Incorporation | 8. <input type="checkbox"/> Operating Agreements(s) |
| <input type="checkbox"/> Bylaws and any amendments to it | |

☐ Other:

A COPY OF ITEM # 1 FOR N C, N C II AND N C III FAMILY LIMITED PARTNERSHIP.

Failure to submit the requested documents within 20 days of the date of this letter may result in a reappraisal of the property. Please sign and return this form with the requested documents to the address indicated above to room 301, attention **Corporate Unit**. If you have any questions please contact **GEORGETA OPRESCU** at (213) 974-7561.

I declare under penalty of perjury that the documents attached hereto or incorporated by reference into this claim are true, correct, and complete.

N.C. FAMILY LIMITED PARTNERSHIP (661) 252-8657
 NAME OF LEGAL ENTITY (CONTACT) TELEPHONE NUMBER

ERASMO C. DOMINGUEZ
 PRINT NAME OF OWNER, PARTNER, OFFICER OR AUTHORIZED AGENT

ERASMO DOMINGUEZ
 SIGNATURE OF OWNER, PARTNER, OFFICER OR AUTHORIZED AGENT

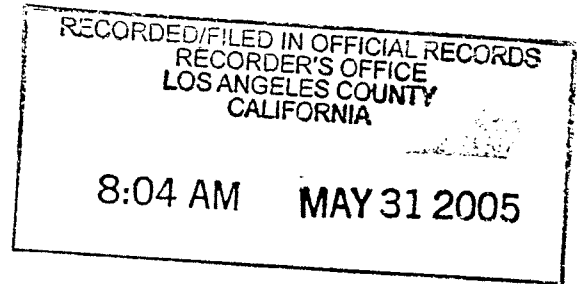
TITLE

07-27-05
 DATE

"To Enrich Lives Through Effective And Caring Service"

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TITLE(S) : DEED



FEE

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D.T.T

CODE
20

CODE
19

CODE
9

NOTIFICATION SENT-\$4

Assessor's Identification Number (AIN)

To be completed by Examiner OR Title Company in black ink.

Number of AIN's Shown

2320 - 003 - 014

002

THIS FORM NOT TO BE DUPLICATED

ERASMO C. DOMINGUEZ
NORA C. DOMINGUEZ
26505 JOSEL DRIVE
SANTA CLARITA, CALIFORNIA 91387

05 1264206

APN# 2320-003-014 & 2320-003-015

SPACE ABOVE THIS LINE FOR RECORDER STAMP

QUITCLAIM DEED

THE UNDERSIGNED GRANTOR(s) DECLARE(s)

DOCUMENTARY TRANSFER TAX is \$-0- CITY TAX \$-0-

computed on full value of property conveyed, or computed on full value less value of liens or encumbrances remained at time of sale,

Unincorporated area: City of: LOS ANGELES, and

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ, Trustee(s) of THE ERASMO C. AND NORA C. DOMINGUEZ FAMILY TRUST, DATED: JANUARY 13, 2005, hereby remises, releases and forever quitclaims to THE N.C. II FAMILY LIMITED PARTNERSHIP, the following described real property in the City of NORTH HOLLYWOOD, County of LOS ANGELES, State of California.

LEGAL DESCRIPTION ATTACHED PER EXHIBIT "A"

The commonly known as: 11437 and 11447 VANOWEN STREET, NORTH HOLLYWOOD, CALIFORNIA 91605

The undersigned grantor(s) declares: The grantor(s) and the grantee(s) in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property, R & T 11923(d). There is no consideration for this transfer and it is excluded from reappraisal under Proposition 13, I.E., California Const. 13A, Section 1, et seq.

Dated 04-13-05

Erasmus C. Dominguez
ERASMO C. DOMINGUEZ

Dated 04-13-05

Nora C. Dominguez
NORA C. DOMINGUEZ

NOTARY PUBLIC
STATE OF CALIFORNIA

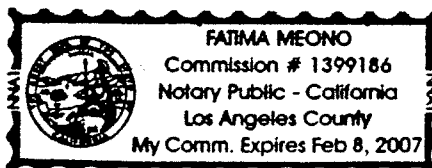
COUNTY OF Los Angeles, ss.

On April 13, 2005 before me Fatima Meono, Notary Public

personally appeared ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ, personally known to me (or proved to me on the basis of satisfactory evidence) to be person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal:

Signature Fatima Meono



Mail Tax Statements to:

Name: ERASMO C. DOMINGUEZ and NORA C. DOMINGUEZ 26505 JOSEL DRIVE SANTA CLARITA, CALIFORNIA 91387

(this area for official notarial stamp)

0167

EXHIBIT "A"

Parcel 1.

The East 55 feet of the East 225 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq., of Miscellaneous Records, in the office of the County Recorder of said County

EXCEPT the South 25 feet thereof included in Vanowen Street

Parcel 2

The East 50 feet of the West 170 feet (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the East 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq., of the Miscellaneous Records of the office of the County Recorder of said County

EXCEPT the Southerly 25 feet thereof included in Vanowen Street

Parcel 3

The East 54 72 feet of the West 279 72 feet, (said distance measured to the center line of Farmdale Avenue, as shown 60 feet wide) of the South 205 feet of the West 10 acres (said distance and acreage being measured to the center line of Vanowen Street, as shown 50 feet wide) of the East half of Lot 74 of the Lankershim Ranch Land and Water Company's Subdivision of the East 12,000 acres of the South half of the Rancho Ex Mission de San Fernando, in the City of Los Angeles, County of Los Angeles, State of California, as per map recorded in Book 31 Page 39, et seq. of the Miscellaneous Records of the office of the County Recorder of said County

EXCEPT the Southerly 25 feet thereof included in Vanowen Street



**CORRECTIVE ACTION PLAN
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA**

PARK PROJECT 1485-J2

**CORRECTIVE ACTION PLAN
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT 1485-J2**

RECEIVED
MAR 18 1999
Ans'd.....

**CORRECTIVE ACTION PLAN
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA**

PARK PROJECT 1485-J2

SUBMITTED TO:

**CALIFORNIA REGIONAL WATER
QUALITY CONTROL BOARD
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CALIFORNIA**

ON BEHALF OF:

**FLEETWOOD MACHINE PRODUCTS, INC.
2902 EAST WASHINGTON STREET
PHOENIX, ARIZONA 85034**

PREPARED BY:

**THE PARK CORPORATION
2130 EAST ORANGEWOOD AVENUE, SUITE 100
ANAHEIM, CALIFORNIA 92806**

MARCH 15, 1999

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**CORRECTIVE ACTION PLAN
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA**

PARK PROJECT 1485-J2

1.0 INTRODUCTION

The Park Corporation (Park) has prepared this Corrective Action Plan (CAP) for the remediation of halogenated volatile organic compounds (HVOCs) and refined non-fuel petroleum hydrocarbons in soil at Fleetwood Machine Products, Inc. (Fleetwood) facility located at 11447 Vanowen Street, in the city of North Hollywood, California (the "Site"). This CAP has been prepared to reflect existing Site conditions and to discuss applicable and recommended remedial action alternatives. Park is submitting this CAP to the California Regional Water Quality Control Board (CRWQCB) for review and approval. Soil remediation will be initiated immediately after CRWQCB approval of this CAP.

1.1 Objectives

The objective of this CAP is to describe and select the most appropriate, cost-effective, and time-effective methods of remediating HVOC affected soil at the Site. Potential remediation of non-fuel petroleum hydrocarbons present in shallow soils will be addressed in a separate CAP.

2.0 BACKGROUND

2.1 Facility Description

The Fleetwood property is located at 11447 Vanowen Street in North Hollywood, California (Figure 1). The facility is currently utilized as a storage/maintenance yard for wheel chairs. The surrounding area is comprised of commercial property and is bordered by Tujunga Avenue to the east and Vanowen Street to the west.

2.2 Project History

In September 1990, Carberry and Associates (Carberry) performed a Phase I investigation of the Site. Results of the investigation are presented in a report entitled "Environmental Disclosure Report" dated November 19, 1990. This report indicated a risk for environmental impairment resulting from the use of HVOCs and the release of waste oils containing HVOCs within the storage area of the Site.

Based on the results of the Phase I investigation, Carberry conducted assessment of soil conditions on April 16, 1991 and presented the results in a report entitled "Final Report, Subsurface Soil Investigation, Fleetwood Machine Products, Inc., 11447 Vanowen Street, North Hollywood

California". This report documents the presence of perchloroethylene (PCE) and 1,1,1-trichloroethane (1,1,1-TCA) in soil to the maximum depths drilled (20 feet bgs). PCE concentrations ranged from non-detect (ND) to 1,500 micrograms per kilogram ($\mu\text{g/kg}$) at the depth of 20 feet bgs. 1,1,1-TCA concentrations ranged from ND to 230 $\mu\text{g/kg}$ at the depth of 20 feet bgs.

Associated with the HVOCs were petroleum hydrocarbons at concentrations ranging from ND to 17,000 milligrams per kilogram (mg/kg). This petroleum hydrocarbon was characterized as being similar to paint thinner and oil.

During January, 1992, Franklin Environmental Management Services (Franklin) conducted a preliminary soil investigation consisting of six soil borings drilled to depths ranging from 10 to 65 feet bgs. Results of this investigation are presented in a report entitled "Preliminary Site Investigation (Phase II)" dated June 19, 1995. PCE and 1,1,1-TCA were detected in soil to the depth of 30 feet bgs. PCE and 1,1,1-TCA each had concentrations which ranged from ND to 16,000 $\mu\text{g/kg}$. Petroleum hydrocarbons measured as total recoverable petroleum hydrocarbons (TRPH) had concentrations ranging from ND to 22,000 mg/kg . The distribution of HVOCs and TRPH strongly suggested a release of a mixture of solvent and oil.

Park conducted a shallow soil vapor survey on June 2 and 3, 1998. Results were presented in a report entitled "Soil Vapor Survey, Fleetwood Machine Products, Inc., 11447 Vanowen Street, North Hollywood, California" dated July 20, 1998. Results of the soil vapor survey indicated the presence of PCE at depths of 5 and 10 feet bgs at concentrations ranging from ND to 112 micrograms per liter ($\mu\text{g/l}$). No other HVOCs were detected. Soil vapors containing PCE were restricted to the northern area of the Site, in the vicinity of known HVOC-affected soils. No additional areas of concern were identified.

Park conducted an additional investigation to collect data required for the preparation of a Corrective Action Plan (CAP). This investigation included the drilling of soil borings, installation of vapor extraction wells, installation of multi-depth soil vapor probes, and performance of a vapor treatability test (Figure 2). Field services were conducted between November 2 and November 17, 1998. Results of additional investigation conducted by Park are presented in Sections 3.0 and 4.0 of this CAP.

2.3 Regional Geology and Hydrogeology

The Site is located within the San Fernando Valley, a basin characterized as containing Recent alluvial sediments which consist primarily of sand, gravel and clay. These sediments, derived primarily from coalescing alluvial fans and associated fluvial systems are unsorted, unconsolidated and highly permeable.

The Site is located within the San Fernando Groundwater Basin as part of the Upper Los Angeles River Area (ULARA). Regional groundwater in this area is reported to occur at approximately 225

to 250 feet below ground surface (bgs) in the southern portion of the basin. Groundwater flows in a southeasterly direction and exits the basin at the Verdugo Narrows.

2.4 Site Geology and Hydrogeology

The Site is located approximately 5,500 feet north of Puente Creek. The majority of sediments between the ground surface and 5 feet bgs at the Site consist of fine to coarse-grained sand with some silt and clay. Below the depth of 5 feet, soil consist primarily of medium to coarse-grained sands with some gravel and occasional cobbles.

Depth to groundwater has not been assessed at the Site. Based on groundwater data from property located within 500 feet of the subject Site, depth to groundwater is estimated to be approximately 210 feet bgs, flowing towards the southeast.

3.0 ADDITIONAL SITE ASSESSMENT

In November, 1998, Park conducted an additional investigation in order to further evaluate the vertical extent of HVOC-affected soil, and to evaluate the Site for SVE remediation. The scope of activities included the drilling of two multi-depth soil vapor probes, two vapor extraction wells, and two combination vapor probe/vapor extraction wells. Multi-depth soil vapor probes were constructed in soil borings with discrete probed installed at depths of 5, 15, 30, 45, and 60 feet bgs. Extraction wells were constructed with screened intervals from either 5 to 30 feet or from 10 to 30 feet bgs. Soil boring logs with well construction and multi-depth vapor probe details are included as Figure 7 and Appendix A. These borings were designated as VP for vapor probes, VW for vapor wells, and VWP for vapor wells with probes.

3.1 Results of Soil Sample Analyses

Soil samples were collected from soil borings at 5-foot increments to the depth of 30 feet, and at 10-foot increments, thereafter. Boring VP-1-P was sampled at 55 feet rather than 60 feet due to auger refusal. Selected soil samples were analyzed for HVOCs using EPA method 8010 and for Total Recoverable Petroleum Hydrocarbons (TRPH) using EPA method 418.1.

Results of analyses for HVOCs using EPA method 8010 indicated the presence of PCE in concentrations ranging from ND to 14,000 µg/kg in soils at the 10 feet depth (Table 1). Trace concentrations of 1,1,1-TCA and 1,1,2-trichloroethane (1,1,2-TCA) were detected at the 10-foot depth at concentrations of 6.4 and 5.2 µg/kg, respectively. At the 20-foot level, PCE had attenuated to 1,100 µg/kg. All samples below the 20-foot depth were ND for all HVOC constituents.

Results of analyses for TRPH using EPA method 418.1 indicated maximum concentrations of 13,732 mg/kg at the 5-foot depth, 9,075 mg/kg at 10 feet, 4,493 mg/kg at 15 feet, and less than 100 mg/kg at all sample depths greater than 15 feet bgs (Figure 3).

Park's findings corroborate previous investigations which suggested that soils affected with HVOCs and TRPH were limited to surficial soils above the 30 foot depth.

3.2 Results of Vapor Probe Sample Analyses

Soil vapor samples were collected from depth-specific vapor probes installed in selected borings. All vapor probes were installed at 15, 30, 45, and 60 feet bgs with the exception of one probe in VP-1-P, which was installed at 55 feet bgs. Selected vapor samples were analyzed for HVOCs using EPA method 8010.

Results of analyses for HVOCs using EPA method 8010 indicated the presence of PCE in concentrations ranging from 1.3 to 40 $\mu\text{g/l}$ at 15 foot depths; 2.1 to 47 $\mu\text{g/l}$ at 30 foot depths; 1.6 to 24 $\mu\text{g/l}$ at 45 foot depths; and, 1.5 to 31 $\mu\text{g/l}$ at 60 foot depths. Trace 1,1,1-TCA concentrations were detected in VWP-1-P at 45 feet bgs at 0.65 $\mu\text{g/l}$ (Figure 4). A complete summary of soil and vapor results are included as Appendix B. Laboratory results for soil samples collected are summarized in Table 2.

4.0 VAPOR EXTRACTION TESTING AND RESULTS

4.1 Vapor Extraction Testing and Sampling Methodology

To assess the feasibility of using vapor extraction to remediate HVOC-affected soils from the unsaturated zone, vapor extraction feasibility testing was performed on four vapor extraction wells (VWP-1-P, VWP-2-P, VW-1-P, and VW-2-P) located within the Site. (The identification of each of these wells are indicated as such: V = Vapor, P = Probes, and W = Well) A regenerative blower was used to produce a vacuum within these wells. Vacuum created in the particular extraction well and adjacent wells was measured with manometers (vacuum gauges) in order to evaluate vapor migration within the vadose zone.

4.1.1 Field Testing Activities

During each test, a vacuum was applied to each casing string for 30 minutes. Air flow rates were observed at the well, and the induced vacuum was measured and recorded. During the test, manometers were used to measure vapor migration within the vadose zone, and vacuum in the monitoring wells adjacent to and in the vicinity of the well being tested.

4.1.2 Vapor Sample Collection and Analysis

Vapor samples were analyzed on Site by Sierra Analytical of Laguna Hills, California. Vapor samples were collected using a non-contaminating, hand-held, SKC vacuum pump. Samples were then

alternative is based in part upon economics, present and future land use, geologic and hydrogeologic site characteristics, nature and distribution of chemical constituents, safety, convenience, and remediation goals to be attained.

Based upon prior experience at sites with similar geologic, hydrogeologic, and environmental concerns, three (3) remedial action alternatives (RAAs) have been selected for consideration as the recommended remedial approach for the Site. These options are as follows:

OPTION I: Passive Soil Remediation;

OPTION II: Soil Vapor Extraction With Off-Gas Treatment; and

OPTION III: Excavation With Off-Site Disposal.

The matrix lists Options I through III and presents selected criteria that have been used to evaluate the viability and desirability of each option.

5.1.1 OPTION I - Passive Soil Remediation

Passive soil remediation relies upon the principle that chlorinated hydrocarbon compounds will naturally degrade or attenuate over time. Such degradation and/or attenuation can be attributed in part to metabolic and co-metabolic processes occurring between indigenous microorganisms found in soil and the hydrocarbon compounds of concern. Under proper circumstances, passive remediation can be an appropriate choice. Sites with soils having adequate populations of chlorinated hydrocarbon-degrading bacteria, nutrients, and oxygen levels may be a good choice for this alternative. Additionally, sites in areas which pose little risk or threat for potential human contact may also be amenable to this alternative. Option I will be retained for further consideration.

5.1.2 OPTION II - Soil Vapor Extraction With Off-Gas Treatment

Soil vapor extraction (SVE) is proposed to volatilize and remove PCE within the vadose zone soils beneath the Site. Well testing revealed that virtually all of the chlorinated hydrocarbons beneath the Site are accessible by the use of SVE. Concentrating the SVE in these areas allows for the maximum removal of PCE from the subsurface. Analytical laboratory results of soil samples and soil vapor surveys indicate that concentrations of PCE are generally restricted to the back (northern) portion of the Site. Within the primary release area, soils are affected to the depth of approximately 30 feet. Trace concentrations of vapors have migrated deeper, to the maximum drilled depth of 60 feet. Based on relatively low concentrations, and a small volume of released PCE, recovered vapors will be treated using GAC.

5.1.3 OPTION III - Excavation With Off-Site Disposal/Treatment

Based on previous soil investigations, it is estimated that HVOC-affected soils are present to depths of 30 feet below ground surface which require soil remediation. Under Option III, affected soil would be excavated and removed from the Site for disposal at a licensed treatment/recycling facility. Because of the configurations of the HVOC plume in soil, excavation activities would require the demolition of above-ground structures. The major physical obstructions associated with this option, combined with the excessive cost and loss of daily retail operations make it impractical, thus Option III was not retained for further consideration.

5.2 Recommended Remedial Action Alternative

Following a review of existing Site geologic and hydrogeologic characteristics, the well testing results, the magnitude and extent of HVOC-affected soil, and the analysis of remedial action alternatives, **Park** recommends that Option II, soil vapor extraction remediation, be retained as the remedial option of choice. SVE technology is proven to remediate soil, and can result in significant improvements in groundwater quality.

Vapor phase HVOC compounds that have been volatilized from the vadose zone soils and groundwater will be conveyed to a carbon treatment unit and captured. The carbon treatment unit will operate under an SCAQMD permit.

As previously stated, potential future remediation of shallow soils containing petroleum hydrocarbons will be addressed in a separate CAP. It is anticipated that enzyme-enhanced bio-venting will be proposed to remediate soils to 10 feet bgs containing petroleum hydrocarbons.

6.0 CONCEPTUAL REMEDIAL DESIGN

6.1 Process Description

SVE is a technology that can be utilized to remove HVOCs from subsurface soils. The performance and efficiency of SVE systems depend primarily on the vapor extraction flow rates, vapor flow paths relative to the body of the HVOC plume, and the physicochemical characteristics of the HVOC compounds of concern (i.e., vapor pressure).

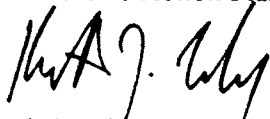
The degree to which soil will be mitigated is a function of the clean, unsaturated air that can be flushed past or through the body of the HVOC plume. Remediation of soil takes place by the following mechanisms:

- Removal of chlorinated hydrocarbon-laden soil gas from pore spaces;
- Vapor phase partitioning of liquid phase chlorinated hydrocarbons;

12.0 REMARKS

The recommendations contained in the Corrective Action Plan represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this location. No warranty is implied or intended.

This Corrective Action Plan was prepared by



Kenneth Lundberg
Project Scientist

This Corrective Action Plan was reviewed by:



Ed Furu, R.G.
Principal Hydrogeologist

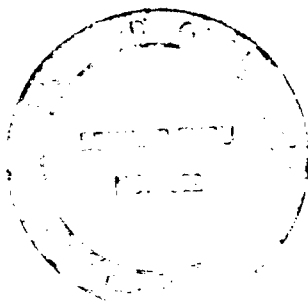


TABLE 1 (page 1 of 2)
SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

SAMPLE NUMBER AND DEPTH	DATE SAMPLED	HALOGENATED VOLATILE ORGANIC COMPOUNDS (HVOC) EPA METHOD 8010 (µg/kg)	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TRPH) EPA METHOD 418.1 (mg/kg)
VWP-1-P @ 5' @ 10' @ 20' @ 30' @ 40' @ 50' @ 60'	11/2/98	NA Tetrachloroethylene = 160 ND ND ND ND ND	1,835 2,162 26 ND 32 NA NA
VWP-2-P @ 10' @ 20' @ 30' @ 40' @ 50' @ 60'	11/2/98	ND ND ND ND ND ND	19 26 22 NA NA NA
VW-1-P @ 5' @ 10' @ 15' @ 20' @ 25' @ 30'	11/2/98	NA Tetrachloroethylene = 1,900 1,1,2-trichloroethane = 5.2 NA ND NA ND	ND 2,049 4,493 25 35 ND
VW-2-P @ 5' @ 10' @ 20' @ 30'	11/2/98	NA ND ND ND	ND ND ND 33

TABLE 1 (page 2 of 2)
SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

SAMPLE NUMBER AND DEPTH	DATE SAMPLED	HALOGENATED VOLATILE ORGANIC COMPOUNDS (HVOC) EPA METHOD 8016 ($\mu\text{g/kg}$)	TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (TPH) EPA METHOD 418.1 (mg/kg)
VP-1-P @ 5' @ 10' @ 15' @ 20' @ 25' @ 30' @ 40' @ 50' @ 55'	11/2/98	NA Tetrachloroethylene = 14,000 1,1,1-trichloroethane = 6.4 NA Tetrachloroethylene = 1,100 NA ND ND ND ND	13,732 9,075 52 37 ND 33 ND NA NA
VP-2-P @ 5' @ 10' @ 20' @ 30' @ 40' @ 50' @ 60'	11/2/98	NA ND ND ND ND ND ND	32 94 22 ND ND NA NA

($\mu\text{g/kg}$) = Micrograms per kilogram
(mg/kg) = Milligrams per kilogram
ND = Not Detected
NA = Not Analyzed

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR DISCRETE
SOIL VAPOR PROBE SAMPLES
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

SAMPLE NUMBER AND DEPTH	DATE SAMPLED	HALOGENATED VOLATILE ORGANIC COMPOUNDS (HVOC) EPA METHOD 8010		DETECTION LIMIT	
		($\mu\text{g/l}$)	ppm(v/v)	($\mu\text{g/l}$)	ppm(v/v)
VWP-1-P @ 15' @ 30' @ 45' @ 60'	11/17/98	Tetrachloroethene = 7.4	1.1	0.5	0.074
		Tetrachloroethene = 6.7	1.0	0.5	0.074
		Tetrachloroethene = 22	3.2	0.5	0.074
		1,1,1-trichloroethane = 0.65	0.12	0.5	0.09
		Tetrachloroethene = 31	4.6	0.5	0.074
VWP-2-P @ 15' @ 30' @ 45' @ 60'	11/17/98	Tetrachloroethene = 0.32	0.32	0.5	0.074
		Tetrachloroethene = 3.0	0.44	0.5	0.074
		Tetrachloroethene = 1.8	0.26	0.5	0.074
		Tetrachloroethene = 1.5	0.22	0.5	0.074
VP-1-P @ 5' @ 10' @ 25' @ 40' @ 55'	11/17/98	Tetrachloroethene = 41	6.0	0.5	0.074
		Tetrachloroethene = 40	5.9	0.5	0.074
		Tetrachloroethene = 47	6.9	0.5	0.074
		Tetrachloroethene = 24	3.5	0.5	0.074
		Tetrachloroethene = 20	2.9	0.5	0.074
VP-2-P @ 5' @ 15' @ 30' @ 45' @ 60'	11/17/98	Tetrachloroethene = 0.91	0.13	0.5	0.074
		Tetrachloroethene = 1.3	0.19	0.5	0.074
		Tetrachloroethene = 2.1	0.31	0.5	0.074
		Tetrachloroethene = 1.6	0.24	0.5	0.074
		Tetrachloroethene = 1.5	0.22	0.5	0.074

$\mu\text{g/l}$ = Micrograms per liter
ppm(v/v) = Parts per million (volume per volume)

TABLE 3
SUMMARY OF ANALYTICAL RESULTS FOR SOIL VAPOR
TREATABILITY SAMPLES
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

SAMPLE NUMBER AND ELAPSED TIME (MINUTES)	DATE SAMPLED	HALOGENATED VOLATILE ORGANIC COMPOUNDS (HVOC) EPA METHOD 8010		DETECTION LIMIT	
		[ppm(v/v)]	(µg/l)	(µg/l)	ppm(v/v)
VWP-1-P @ 5' @ 30'	11/18/98	Tetrachloroethene = 9.3 Tetrachloroethene = 9.1	63 62	0.5 0.5	0.074 0.074
VWP-2-P @ 5' @ 30'	11/18/98	Tetrachloroethene = 1.6 Tetrachloroethene = 1.2	11 7.9	0.5 0.5	0.074 0.074
VP-1-P @ 5' @ 30'	11/18/98	Tetrachloroethene = 22 Tetrachloroethene = 22	150 150	0.5 0.5	0.074 0.074
VP-2-P @ 5' @ 30'	11/18/98	Tetrachloroethene = 1.0 Tetrachloroethene = 1.3	6.9 8.7	0.5 0.5	0.074 0.074

µg/l = Micrograms per liter
ppm(v/v) = Parts per million (volume per volume)

TABLE 4 (page 1 of 4)
RESPONSE OF VAPOR EXTRACTION WELL VWP-1-P
TO OTHER VAPOR EXTRACTION WELLS WITH TIME OF SAMPLING
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

TIME (PM)	VACUUM PRESSURE IN INCHES OF MERCURY	VAPOR FLOW RATE CFM	VACUUM PRESSURE IN EACH WELL, IN INCHES OF WATER			HC READING PPMV (OVA)	LABORATORY RESULTS PPMV
			VW-1-P	VWP-2-P	VW-2-P		
1:30	1.10	220	1.8	.21	.15	7.1	
1:40	1.10	220	1.7	.20	.15	7.3	
1:50	1.10	218	1.75	.22	.12	7.3	
2:00	1.10	218	1.75	.22	.13	7.6	
2:10	1.10	218	1.75	.22	.13	7.4	
2:20	1.10	218	1.74	.23	.13	7.3	
2:30	1.10	218	1.75	.22	.13	7.4	

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TABLE 4 (page 2 of 4)
RESPONSE OF VAPOR EXTRACTION WELL VW -1-P
TO OTHER VAPOR EXTRACTION WELLS WITH TIME OF SAMPLING
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PARK PROJECT NO. 1485-J2

TIME (PM)	VACUUM PRESSURE IN INCHES OF MERCURY	VAPOR FLOW RATE CFM	VACUUM PRESSURE IN EACH WELL, IN INCHES OF WATER			IIC READING PPMV (OVA)	LABORATORY RESULTS PPMV
			VWP-1-P	VWP-2-P	VW-2-P		
2:50	1.47	205	1.68	.40	.30	22.5	
2:55	1.47	205	1.70	.40	.30	22.8	
3:05	1.47	205	1.70	.41	.30	22.7	
3:15	1.47	205	1.60	.41	.32	23.0	
3:25	1.47	206	1.70	.41	.33	22.6	
3:35	1.47	205	1.70	.41	.33	22.6	
3:45	1.47	205	1.70	.41	.33	22.5	

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TABLE 3 (page 3 of 4)
 RESPONSE OF VAPOR EXTRACTION WELL VWP-2-P
 TO OTHER VAPOR EXTRACTION WELLS WITH TIME OF SAMPLING
 FLEETWOOD MACHINE PRODUCTS, INC.
 11447 VANOWEN STREET
 NORTH HOLLYWOOD, CALIFORNIA
 PARK PROJECT NO. 1485-J2

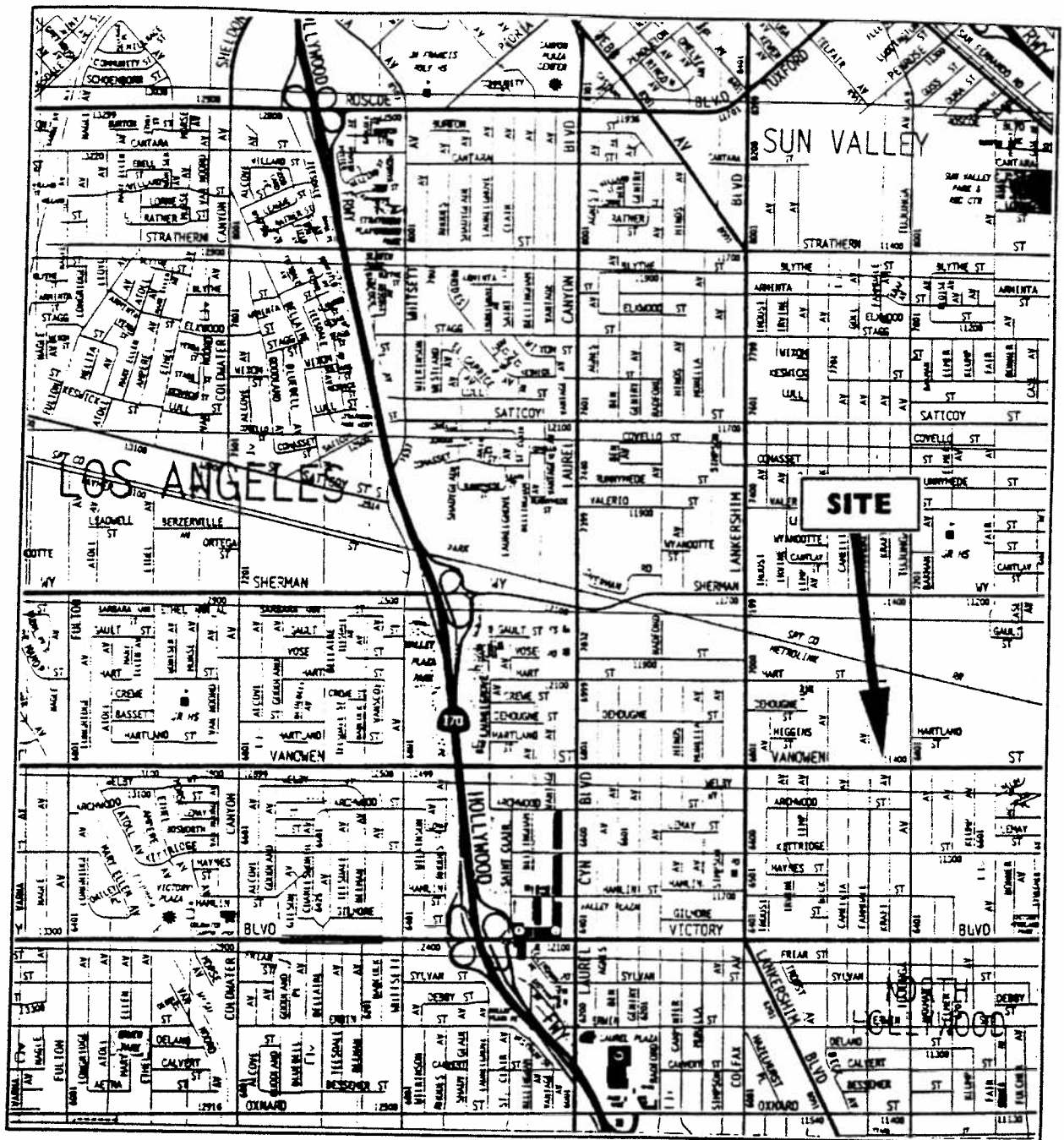
TIME (PM)	VACUUM PRESSURE IN INCHES OF MERCURY	VAPOR FLOW RATE CFM	VACUUM PRESSURE IN EACH WELL, IN INCHES OF WATER			HC READING PPMV (OVA)	LABORATORY RESULTS PPMV
			VWP-1-P	VW-1-P	VW-2-P		
3:55	1.32	198	1.0	.46	.42	1.1	
4:00	1.32	198	1.0	.47	.42	1.7	
4:10	1.32	198	1.1	.45	.42	1.6	
4:20	1.32	198	1.1	.46	.42	1.6	
4:30	1.32	198	1.0	.45	.43	1.6	
4:40	1.32	200	1.0	.45	.43	1.6	
4:50	1.32	200	1.0	.45	.43	1.6	

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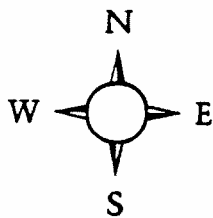
TABLE 3 (page 4 of 4)
 RESPONSE OF VAPOR EXTRACTION WELL VW-2-P
 TO OTHER VAPOR EXTRACTION WELLS WITH TIME OF SAMPLING
 FLEETWOOD MACHINE PRODUCTS, INC.
 11447 VANOWEN STREET
 NORTH HOLLYWOOD, CALIFORNIA
 PARK PROJECT NO. 1485-J2

TIME (PM)	VACUUM PRESSURE IN INCHES OF MERCURY	VAPOR FLOW RATE CFM	VACUUM PRESSURE IN EACH WELL, IN INCHES OF WATER			HC READING PPMV (OVA)	LABORATORY RESULTS PPMV
			VWP-1-P	VW-1-P	VWP-2-P		
5:00	0.88	226	0.90	0.39	0.47	1.0	
5:05	0.88	226	0.90	0.40	0.48	1.0	
5:15	0.88	226	0.95	0.40	0.48	1.0	
5:25	0.88	226	0.95	0.40	0.48	0.9	
5:35	0.88	225	0.95	0.40	0.47	0.9	
5:45	0.88	225	0.95	0.41	0.48	1.1	
5:55	0.88	225	0.95	0.41	0.48	1.0	

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ADAPTED FROM : 1996 LOS ANGELES/ORANGE COUNTIES THOMAS GUIDE MAP, PAGE 532

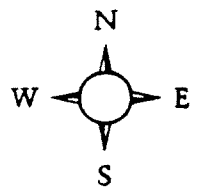


APPROXIMATE SCALE:
1 INCH = 2,400 FEET

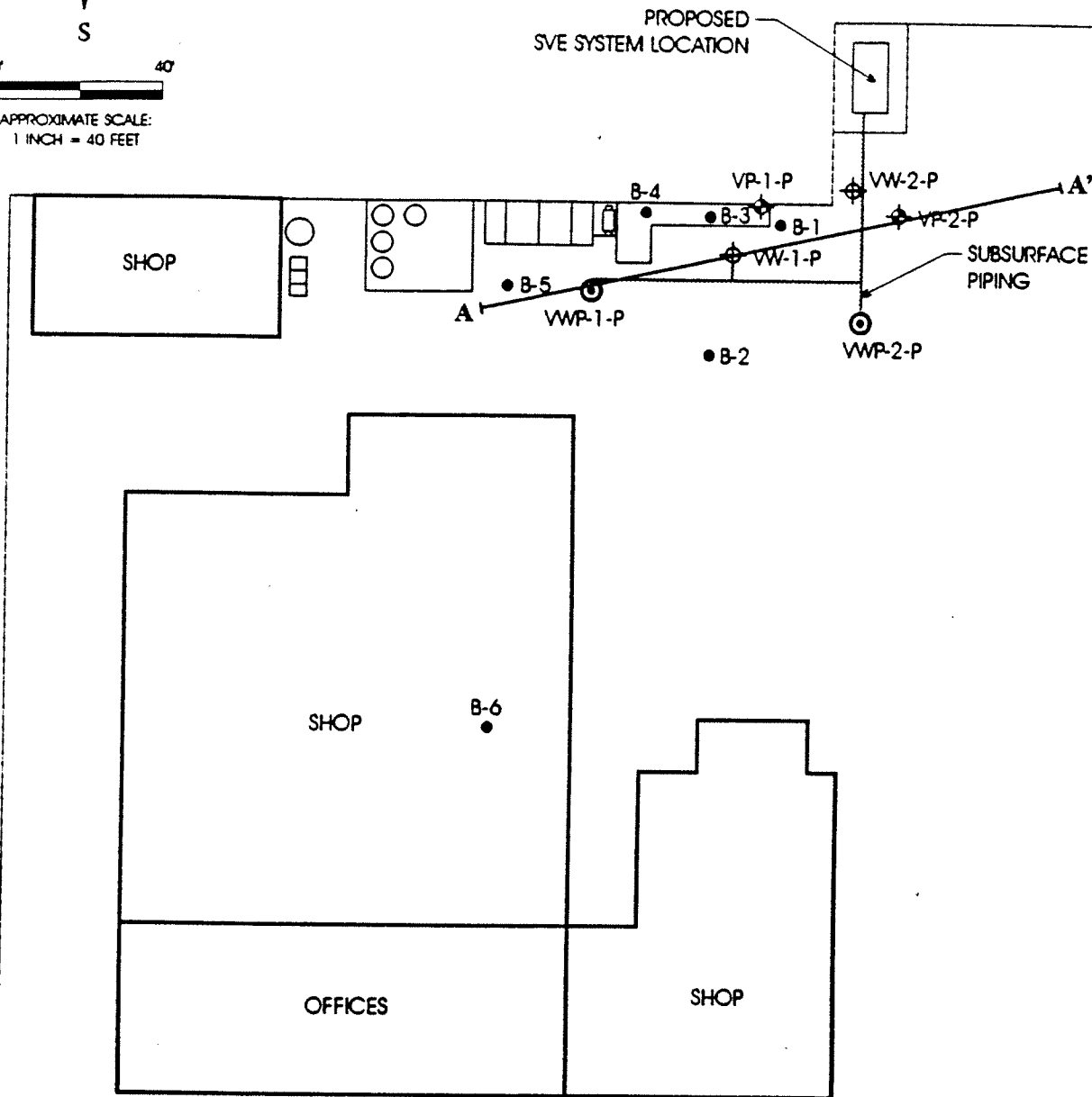
SITE LOCATION MAP
FLEETWOOD MACHINE PRODUCTS, INC.
11447 VANOWEN STREET
NORTH HOLLYWOOD, CALIFORNIA
PROJECT NO. 1485



FIGURE 1 Corporation



APPROXIMATE SCALE:
1 INCH = 40 FEET



VANOWEN STREET

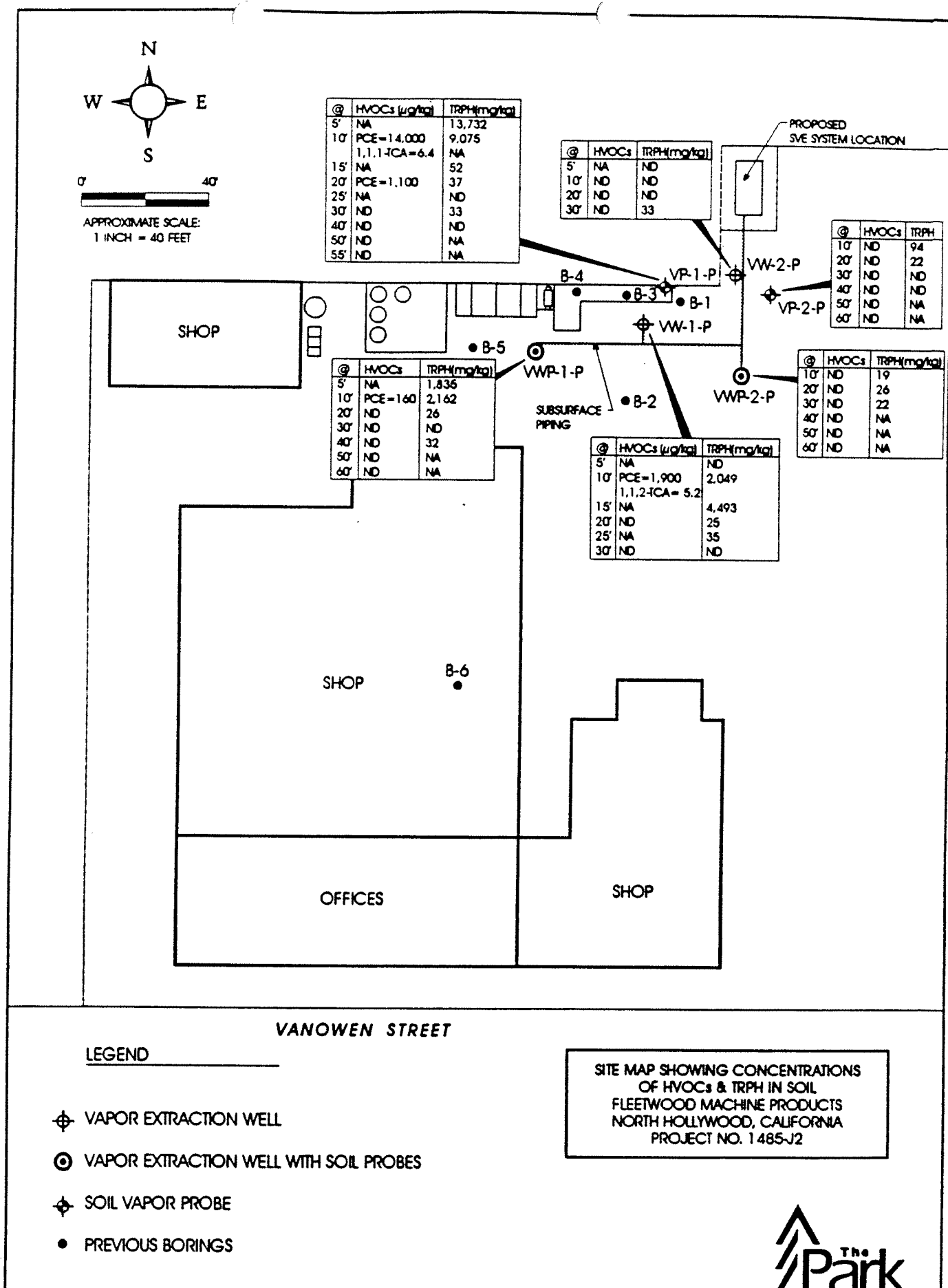
LEGEND

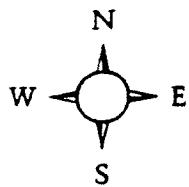
- ⊕ VAPOR EXTRACTION WELL
- ⊙ VAPOR EXTRACTION WELL WITH SOIL PROBES
- ⊕ SOIL VAPOR PROBE
- PREVIOUS BORINGS

SITE MAP
FLEETWOOD MACHINE PRODUCTS
NORTH HOLLYWOOD, CALIFORNIA
PROJECT NO. 1485-J2



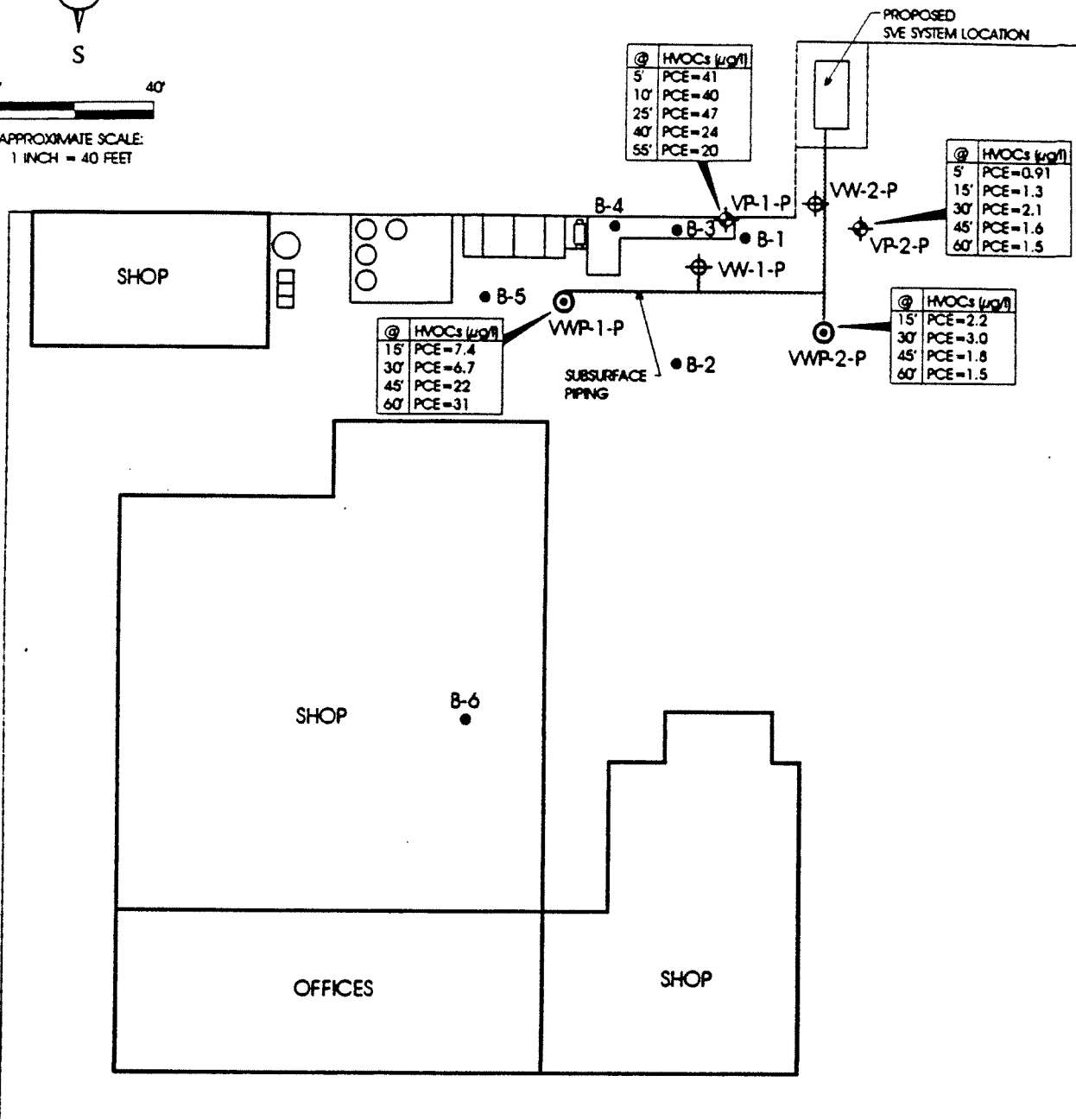
FIGURE 2





0' 40'

APPROXIMATE SCALE:
1 INCH = 40 FEET



VANOWEN STREET

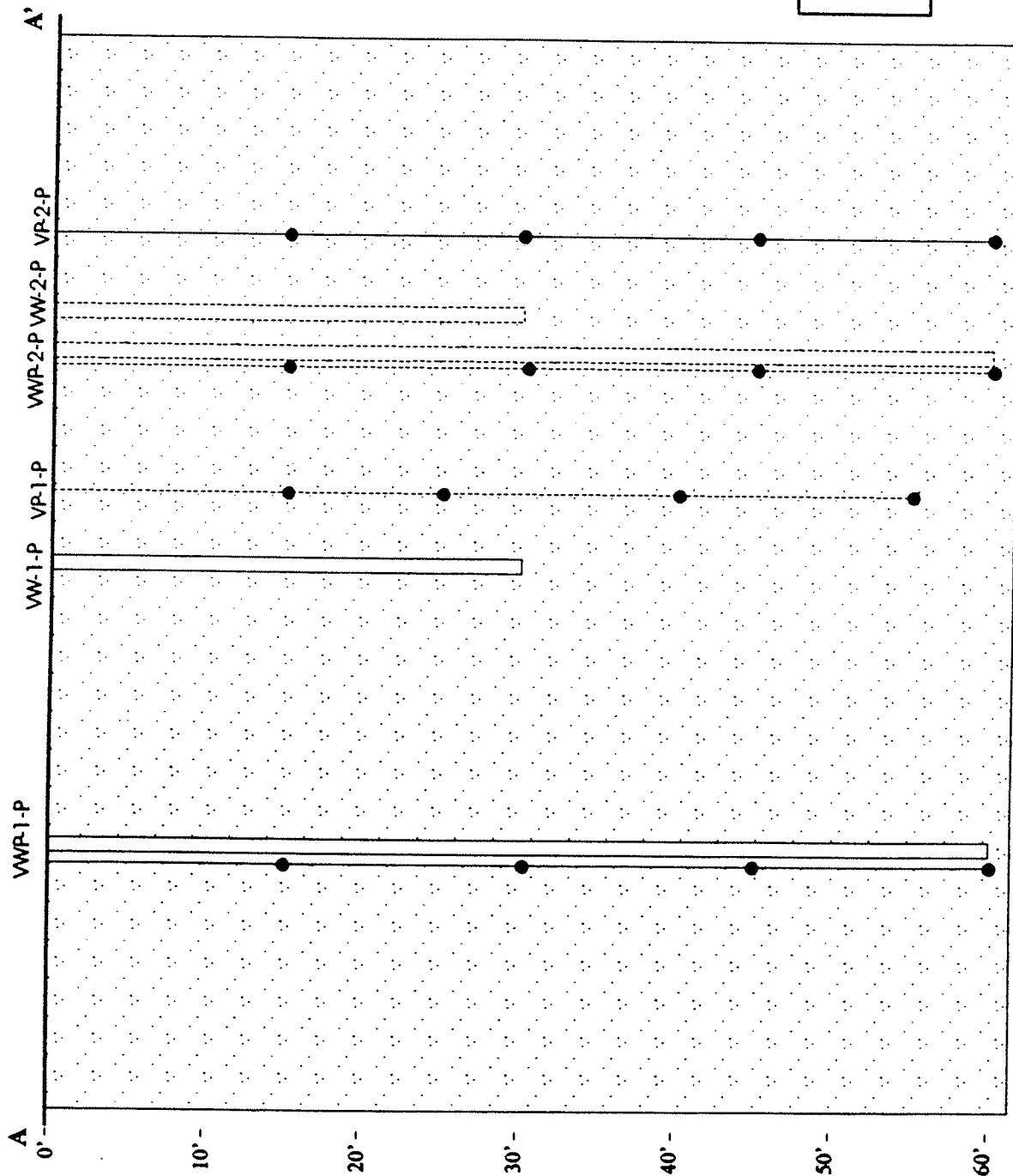
LEGEND

- ⊕ VAPOR EXTRACTION WELL
- ⊙ VAPOR EXTRACTION WELL WITH SOIL PROBES
- ⊕ SOIL VAPOR PROBE
- PREVIOUS BORINGS

SITE MAP SHOWING CONCENTRATIONS
OF HVOC IN VAPOR
FLEETWOOD MACHINE PRODUCTS
NORTH HOLLYWOOD, CALIFORNIA
PROJECT NO. 1485-J2

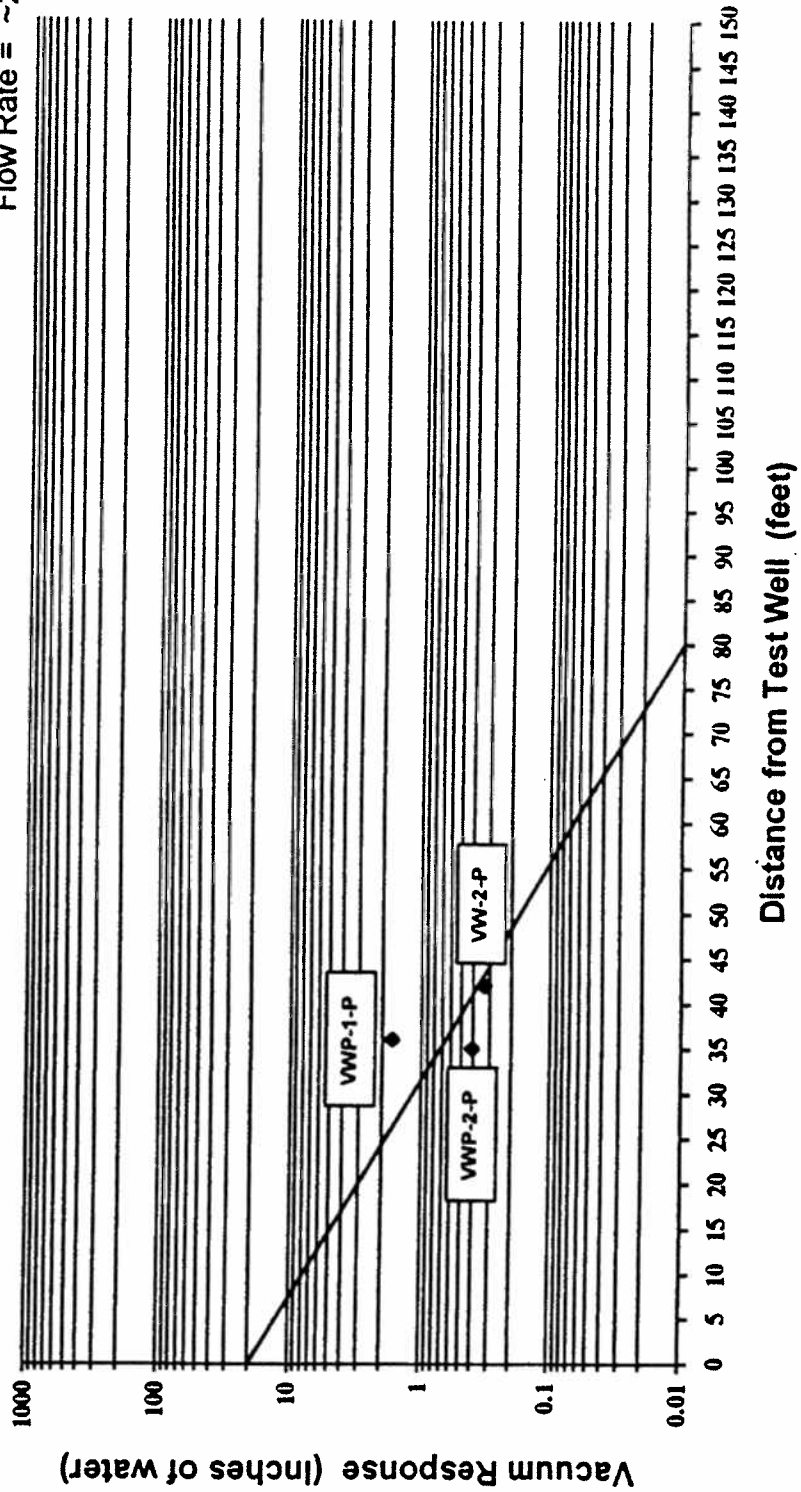


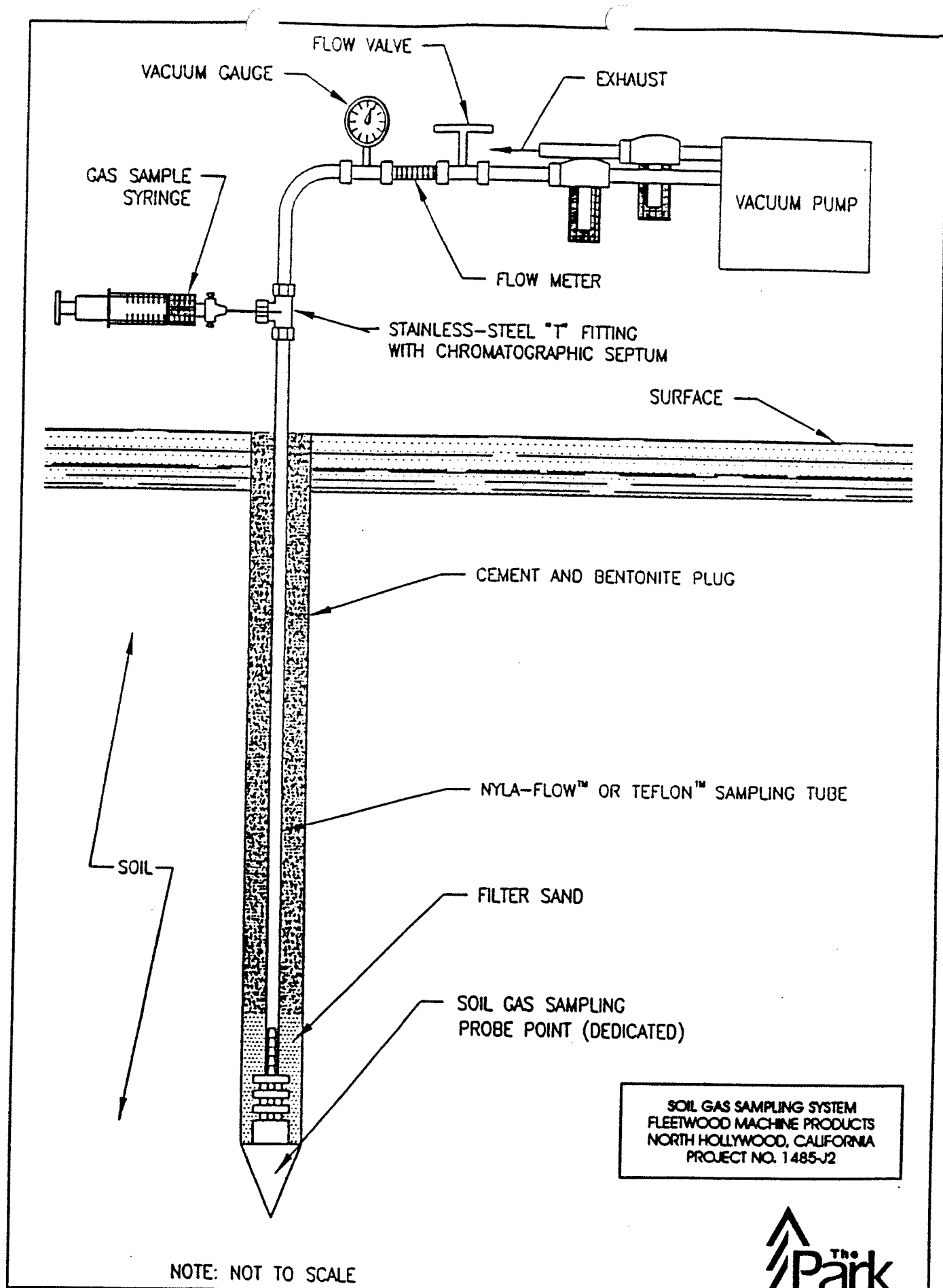
FIGURE 4 Corporation



Estimated Radius of Influence
Well Cap Measurements
Fleetwood Machine Products, Inc.
11447 Vanowen St.
North Hollywood, California
Park Project No. 1485-J2

Test Well -VW-1-P
Flow Rate = ~205 cfm





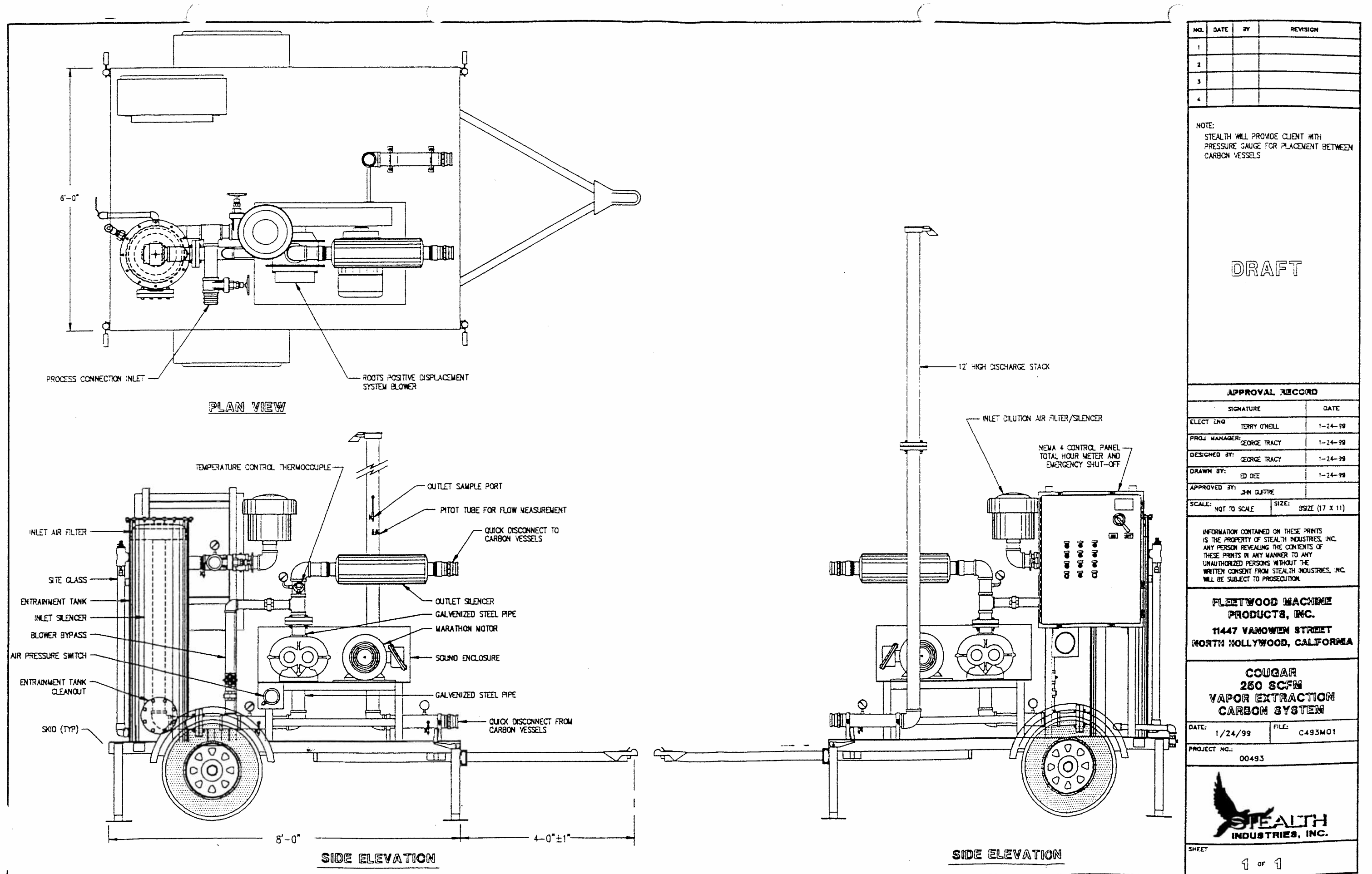


FIGURE 8



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SITE LOCATION SKETCH MAP

Page 1 of 2

WELL CONSTRUCTION LOG

BORING/WELL NO.
 VP-1-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

DRILLING CONTRACTOR/DRILLER

Spectrum/Dan & Don

GEOLOGIST/OFFICE

Ken Lundberg/Anaheim

DRILLING EQUIPMENT/METHOD

CME-75/Hollow Stem Auger

LOCATION

11447 Vanowen Street

North Hollywood, California

APPROVED BY

Ed Furu

SIZE/TYPER OF BIT

6 1/4" / Spade

SAMPLING METHOD

Split Spoon

START/FINISH DATE

11/3/98-11/3/98

WELL INSTALLED?

YES ☐ NO ☐

CASING MAT./DIA.

SCREEN:

TYPE

MAT.

LENGTH

DIA.

SLOT SIZE

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

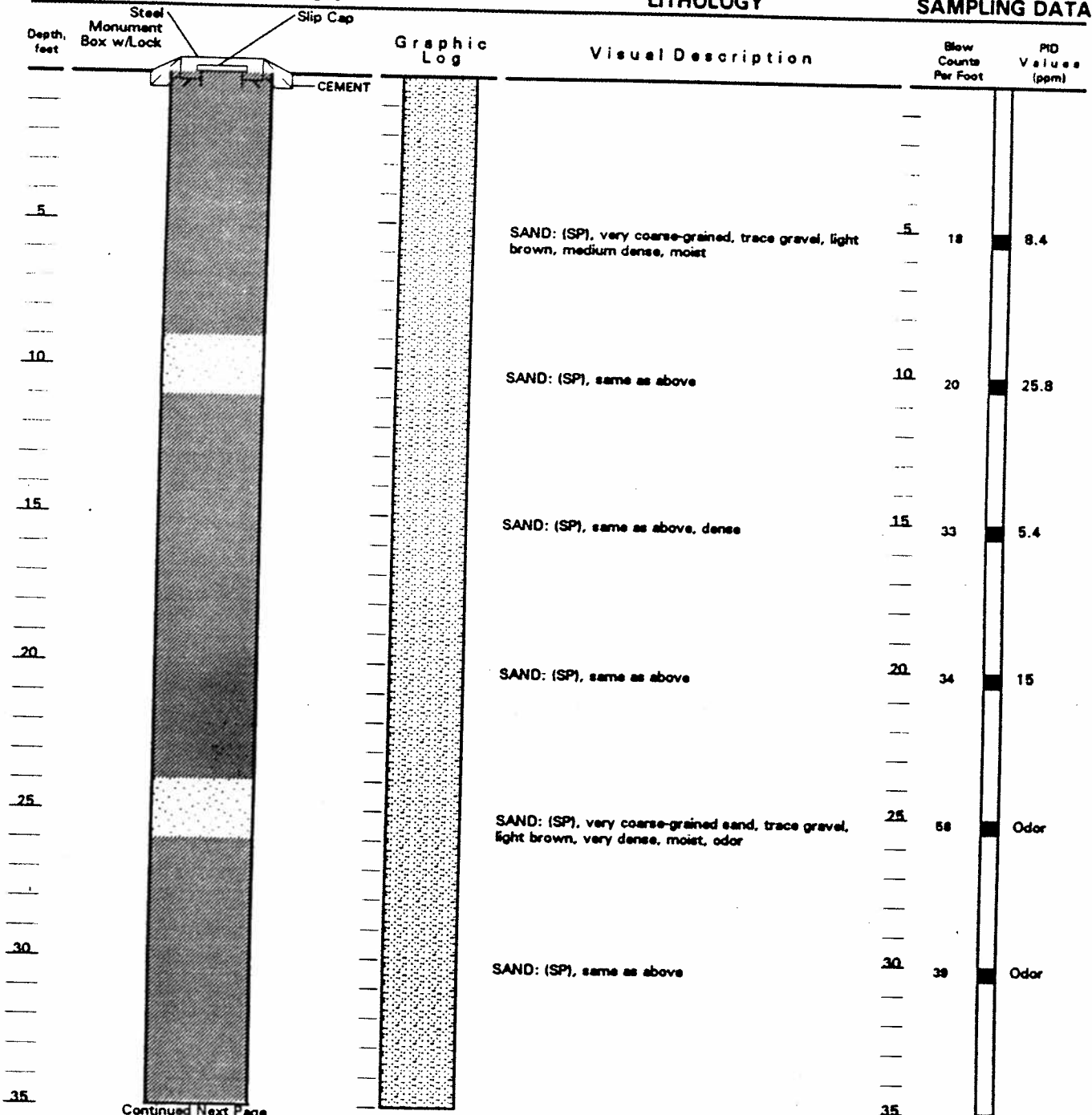
DATE

(FT. ABOVE M.S.L.)

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA



Continued Next Page



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SITE LOCATION SKETCH MAP

Page 1 of 2

WELL CONSTRUCTION LOG

BORING/WELL NO.

VP-2-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

LOCATION

11447 Vanowen Street

DRILLING CONTRACTOR/DRILLER

Spectrum/Dan & Don

North Hollywood, California

GEOLOGIST/OFFICE

Ken Lundberg/Anaheim

APPROVED BY

Ed Furu

DRILLING EQUIPMENT/METHOD

CME-75/Hollow Stem Auger

SIZE/TYPE OF BIT

6 1/4" / Spade

SAMPLING METHOD

Split Spoon

START/FINISH DATE

11/3/98-11/3/98

WELL INSTALLED?

YES ☐ NO ☐

CASING MAT./DIA.

SCREEN:

TYPE

MAT.

LENGTH

DIA.

SLOT SIZE

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

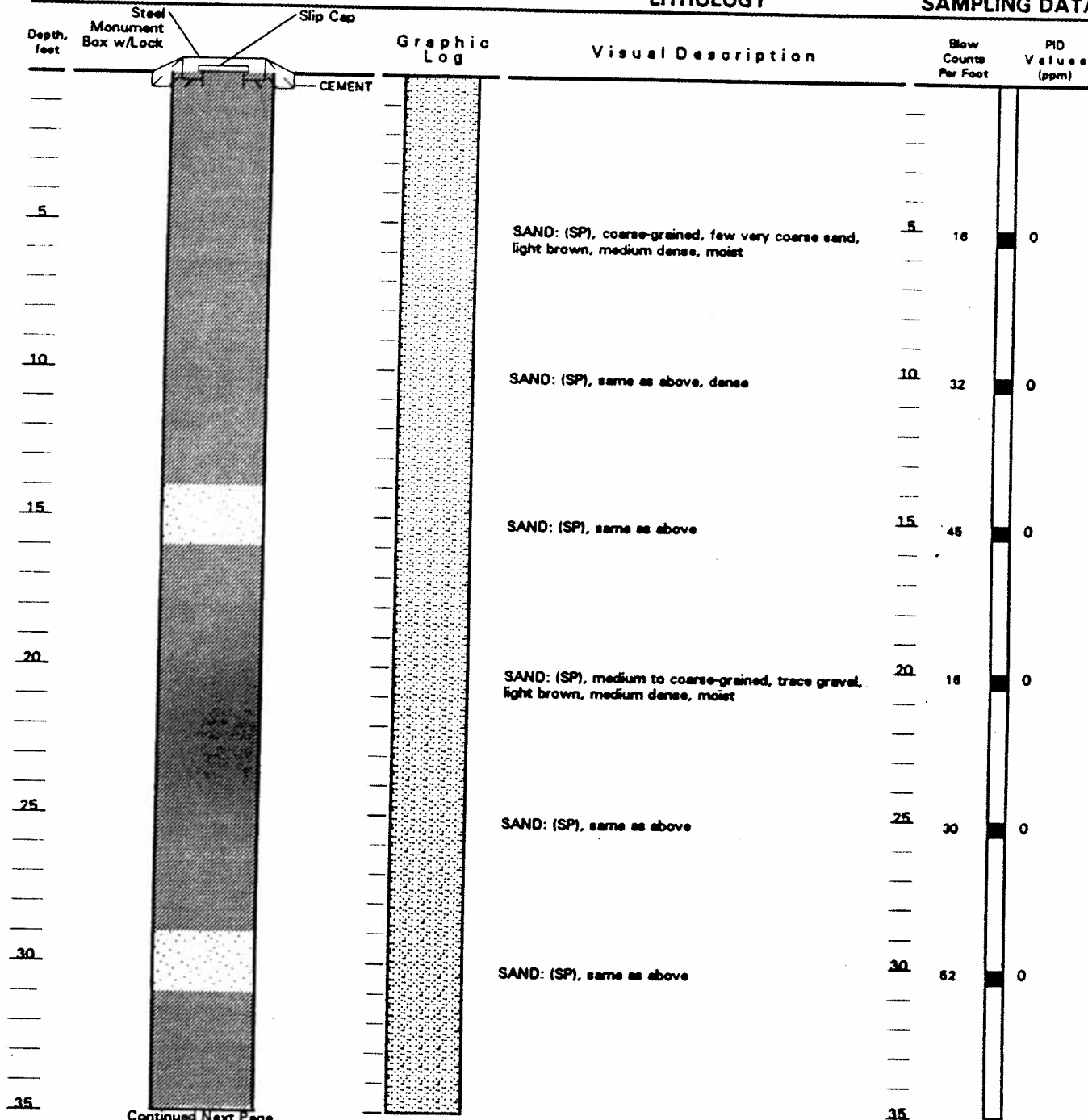
DATE

(FT. ABOVE M.S.L.)

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA





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Page 2 of 2

BORING/WELL NO.

VP-2-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

LOCATION

11447 Vanowen Street

North Hollywood, California

WELL CONSTRUCTION LOG

WELL CONSTRUCTION		LITHOLOGY		SAMPLING DATA	
Depth, feet		Graphic Log	Visual Description	Blow Counts Per Foot	PIV Values (ppm)
	Continued				
40			SAND: (SP), same as above	41	0
45					
50			SAND: (SP), same as above, few gravels, very dense	96	0
55					
60			SAND: (SP), same as above, very gravelly	60	0

BORING COMPLETED AT 60 FEET BELOW GROUND
SURFACE
NO GROUNDWATER ENCOUNTERED
VAPOR PROBES INSTALLED AT 15, 30, 45, AND 60
FEET BELOW GROUND SURFACE



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SITE LOCATION SKETCH MAP

Page 1 of 1

WELL CONSTRUCTION LOG

BORING/WELL NO.
 VW-1-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

DRILLING CONTRACTOR/DRILLER

Spectrum/Dan & Don

GEOLOGIST/OFFICE

Ken Lundberg/Anaheim

DRILLING EQUIPMENT/METHOD

CME-75/Hollow Stem Auger

LOCATION

11447 Vanowen Street

North Hollywood, California

APPROVED BY

Ed Furu

SIZE/TYPE OF BIT

6 1/4" / Spade

SAMPLING METHOD

Split Spoon

START/FINISH DATE

11/3/98-11/3/98

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT./DIA.

PVC / 4"

SCREEN:

TYPE Slotted

MAT. PVC

LENGTH 28'

SLOT SIZE 0.02"

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

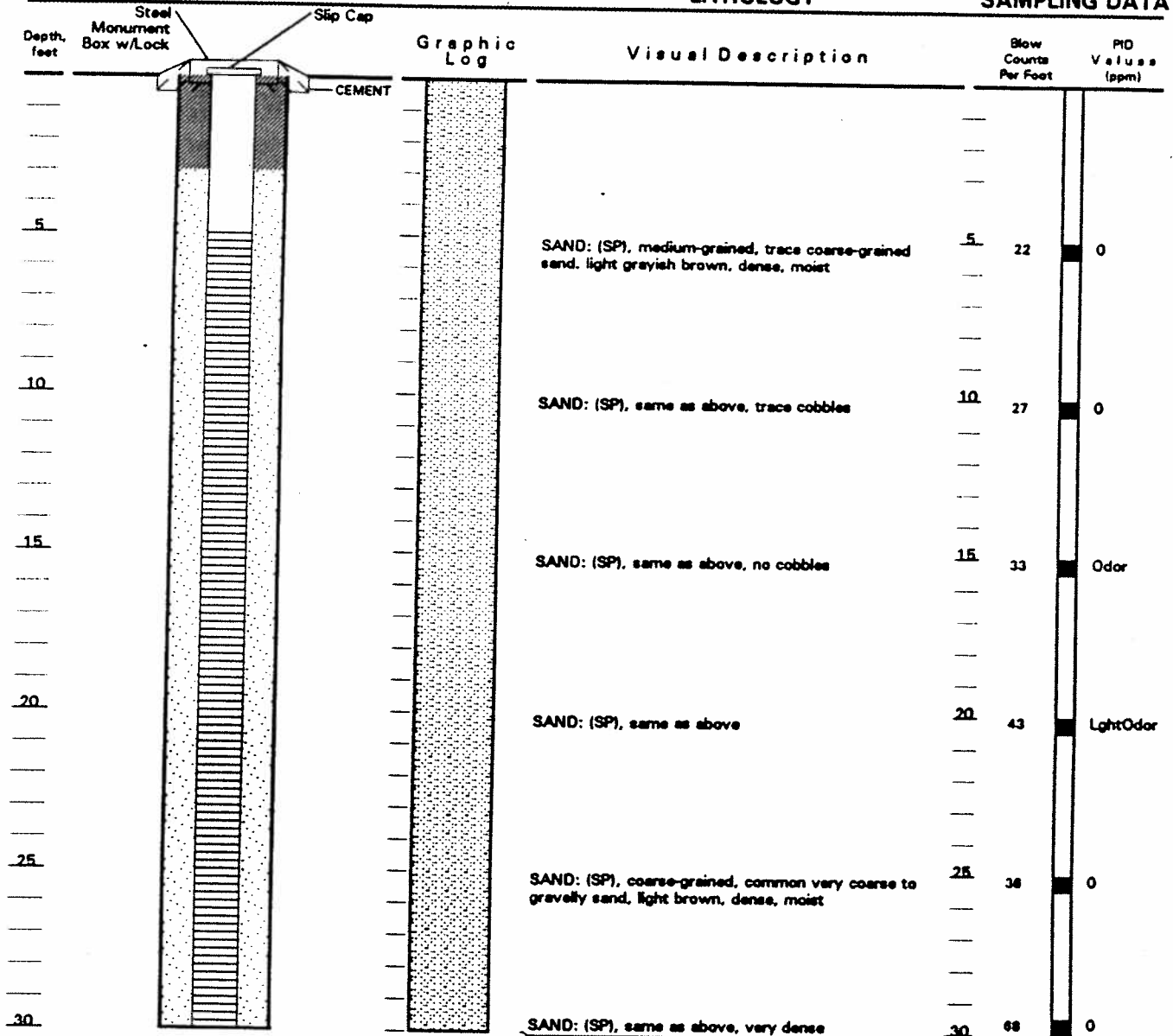
DATE

(FT. ABOVE M.S.L.)

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA



BORING COMPLETED AT 30 FEET BELOW GROUND SURFACE
 NO GROUNDWATER ENCOUNTERED



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SITE LOCATION SKETCH MAP

Page 1 of 1

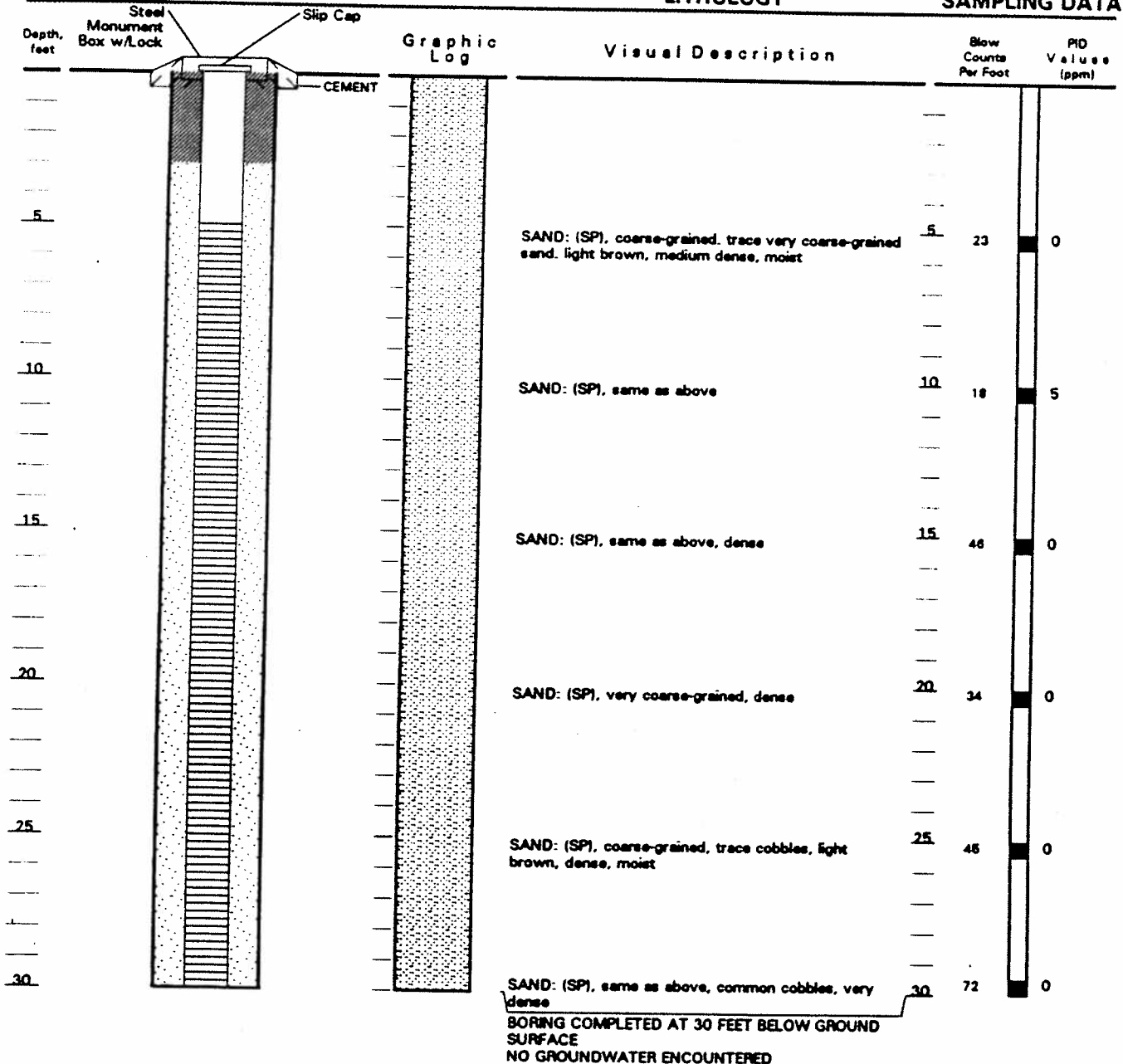
WELL CONSTRUCTION LOG

BORING/WELL NO. VW-2-P		PROJECT NO./NAME 1485-J2/Fleetwood Machine Products		LOCATION 11447 Vanowen Street North Hollywood, California	
DRILLING CONTRACTOR/DRILLER Spectrum/Dan & Don		GEOLOGIST/OFFICE Ken Lundberg/Anaheim		APPROVED BY Ed Furu	
DRILLING EQUIPMENT/METHOD CME-75/Hollow Stem Auger		SIZE/TYPE OF BIT 6 1/4" / Spade		SAMPLING METHOD Split Spoon	START/FINISH DATE 11/3/98-11/3/98
WELL INSTALLED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	CASING MAT./DIA. PVC / 4"	SCREEN: TYPE Slotted	MAT. PVC	LENGTH 25'	DIA. 4"
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN	GW SURFACE	DATE

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA





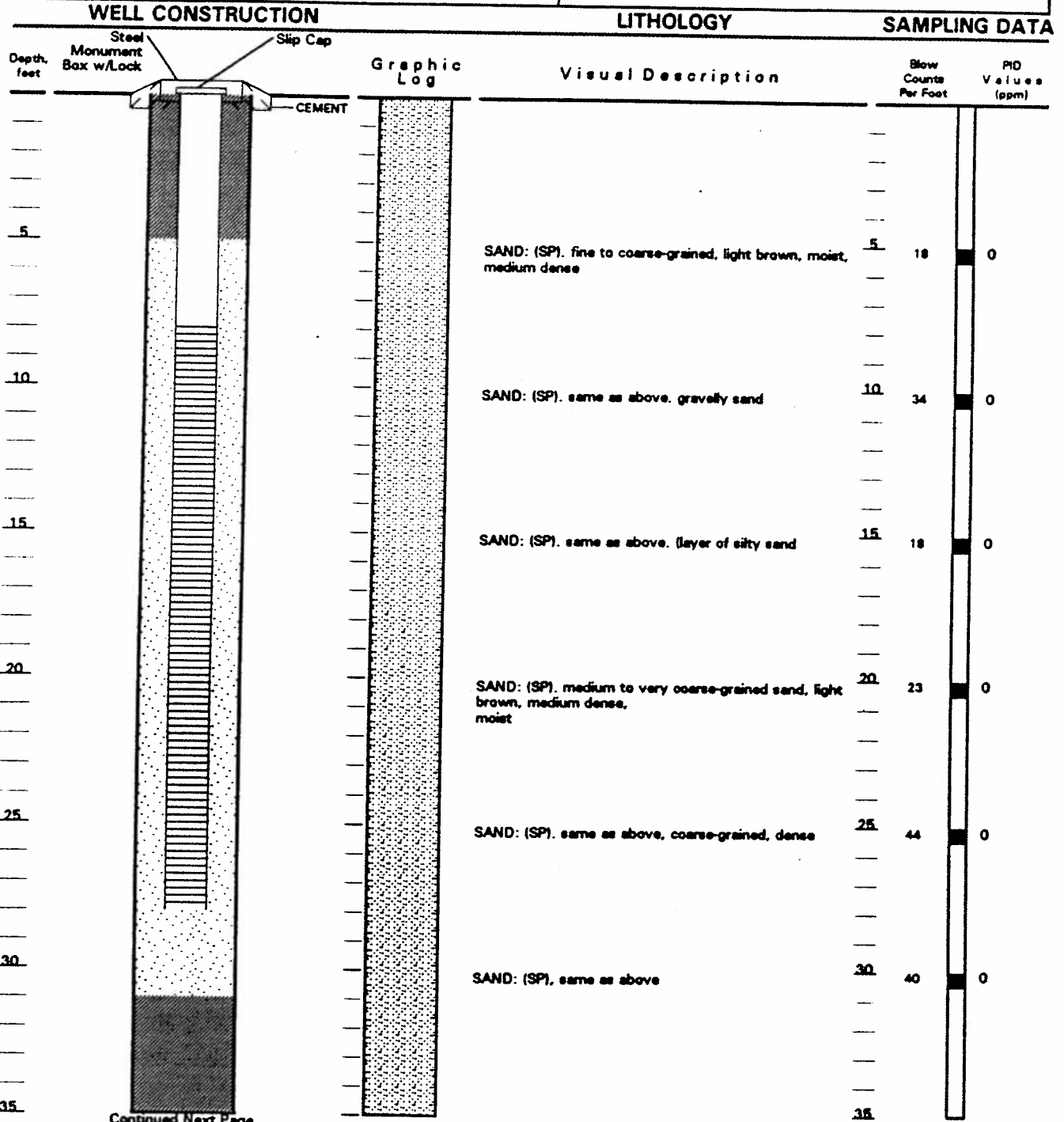
2130 E. Orangewood Avenue, Suite 100
 Anaheim, California 92808
 Tel: 714.777.1001
 Fax: 714.777.1262

SITE LOCATION SKETCH MAP

Page 1 of 2

WELL CONSTRUCTION LOG

BORING/WELL NO. VWP-1-P		LOCATION 11447 Vanowen Street North Hollywood, California	
PROJECT NO./NAME 1485-J2/Fleetwood Machine Products		APPROVED BY Ed Furu	
DRILLING CONTRACTOR/DRILLER Spectrum/Dan		SAMPLING METHOD Split Spoon	
GEOLOGIST/OFFICE Ken Lundberg/Anaheim		START/FINISH DATE 11/2/98-11/2/98	
DRILLING EQUIPMENT/METHOD CME-75/Hollow Stem Auger		SIZE/TYPE OF BIT 6 1/4" / Spade	
WELL INSTALLED? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	CASING MAT./DIA. PVC	SCREEN: TYPE Slotted	MAT. PVC
ELEVATION OF: (FT. ABOVE M.S.L.)	GROUND SURFACE	TOP OF WELL CASING	TOP & BOTTOM SCREEN
LENGTH 20'		DIA. 4"	SLOT SIZE 0.02"





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Page 2 of 2

BORING/WELL NO.
VWP-1-P

WELL CONSTRUCTION LOG

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

LOCATION

11447 Vanowen Street

North Hollywood, California

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA

Depth, feet	Continued	Graphic Log	Visual Description	Blow Counts Per Foot	PID Values (ppm)
40			SAND: (SP), same as above, trace gravel	58	0
45					
50			SAND: (SP), medium to coarse-grained, light brown, very dense, moist	67	0
55			SAND: (SP), same as above, common gravels		
60				60	0

BORING COMPLETED AT 60 FEET BELOW GROUND
SURFACE
NO GROUNDWATER ENCOUNTERED
VAPOR PROBES INSTALLED AT 15, 31, 45, 60 FEET
BELOW GROUND SURFACE



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SITE LOCATION SKETCH MAP

Page 1 of 2

WELL CONSTRUCTION LOG

BORING/WELL NO.

VWP-2-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

DRILLING CONTRACTOR/DRILLER

Spectrum/Dan & Don

GEOLOGIST/OFFICE

Ken Lundberg/Anaheim

DRILLING EQUIPMENT/METHOD

CME-75/Hollow Stem Auger

LOCATION

11447 Vanowen Street

North Hollywood, California

APPROVED BY

Ed Furu

SIZE/TYPE OF BIT

6 1/4" / Spade

SAMPLING METHOD

Split Spoon

START/FINISH DATE

11/3/98-11/3/98

WELL INSTALLED?

YES ☒ NO ☐

CASING MAT./DIA.

PVC

SCREEN:

TYPE Slotted

MAT. PVC

LENGTH 20' DIA. 4"

SLOT SIZE 0.02"

ELEVATION OF:

GROUND SURFACE

TOP OF WELL CASING

TOP & BOTTOM SCREEN

GW SURFACE

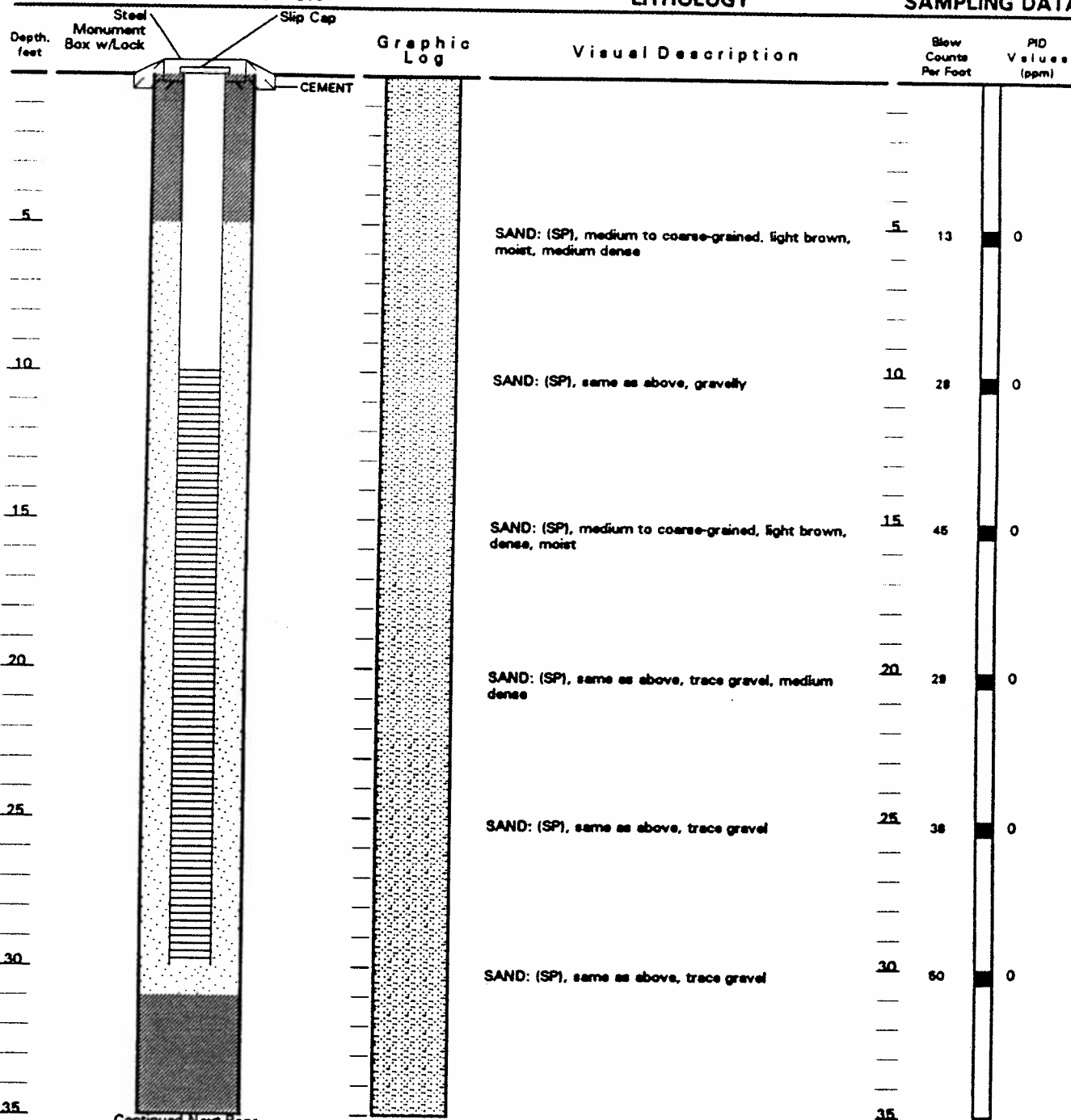
DATE

(FT. ABOVE M.S.L.)

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA





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Page 2 of 2

WELL CONSTRUCTION LOG

BORING/WELL NO.

VWP-2-P

PROJECT NO./NAME

1485-J2/Fleetwood Machine Products

LOCATION

11447 Vanowen Street

North Hollywood, California

WELL CONSTRUCTION

LITHOLOGY

SAMPLING DATA

Depth, feet	Continued	Graphic Log	Visual Description	Blow Counts Per Foot	PIG Values (ppm)
40			SAND: (SP), same as above	44	0
45					
50			SAND: (SP), same as above, very dense	78	0
55					
60			SAND: (SP), same as above, very gravelly	75	0

BORING COMPLETED AT 60 FEET BELOW GROUND
SURFACE
NO GROUNDWATER ENCOUNTERED
VAPOR PROBES INSTALLED AT 15, 31, 45, AND 60
FEET BELOW GROUND SURFACE

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled: 11/2/98 Date Received: 11/6/98 Date Prepared: 11/10/98 Date Analyzed: 11/10/98 to 11/11/98 Analyst: SM
Sierra Project No.: 9811-123 Client Project ID: 1485-J2 / Fleetwood Sample Matrix: Soil	Report Date: 11/12/98	

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Client Sample No.:	Concentration, $\mu\text{g/kg}$				Method Detection Limit, $\mu\text{g/kg}$
	VPW-I-P @10'	VPW-I-P @20'	VPW-I-P @30'	VPW-I-P @40'	
Sierra Sample No.:	17575	17577	17579	17580	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	160	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1	1	QC Limits
% Surrogate Recovery: 1-chloro-2-fluorobenzene	73	105	95	92	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1-Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation
2130 E. Orange Wood
Anaheim, CA 92806

Sierra Project No.: 9811-123
Client Project ID: 1485-J2 / Fleetwood
Sample Matrix: Soil

Date Sampled: 11/2/98
Date Received: 11/6/98
Date Prepared: 11/10/98
Date Analyzed: 11/10/98 to 11/11/98
Analyst: SM

Report Date: 11/12/98

HALOGENATED VOLATILE ORGANICS

EPA METHOD 8010

Client Sample No.:	Concentration, $\mu\text{g/kg}$				Method Detection Limit, $\mu\text{g/kg}$
	VPW-1-P @50'	VPW-1-P @60'	VPW-2-P @10'	VPW-2-P @20'	
Sierra Sample No.:	17581	17582	17584	17586	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	ND	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1	1	QC Limits
% Surrogate Recovery: 1-chloro-2-fluorobenzene	105	98	110	110	
					35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled:	11/2/98
		Date Received:	11/6/98
		Date Prepared:	11/10/98
		Date Analyzed:	11/10/98 to 11/11/98
Sierra Project No.:	9811-123	Analyst:	SM
Client Project ID:	1485-J2 / Fleetwood		
Sample Matrix:	Soil	Report Date:	11/12/98

**HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010**

Client Sample No.:	Concentration, µg/kg				Method Detection Limit, µg/kg
	VPW-2-P @30'	VPW-2-P @40'	VPW-2-P @50'	VPW-2-P @60'	
Sierra Sample No.:	17588	17589	17590	17591	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	ND	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1	1	QC Limits
% Surrogate Recovery:					
1-chloro-2-fluorobenzene	110	120	120	105	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled:	11/2/98
		Date Received:	11/6/98
		Date Prepared:	11/10/98
Sierra Project No.:	9811-123	Date Analyzed:	11/10/98 to 11/11/98
Client Project ID:	1483-J2 / Fleetwood	Analyst:	SM
Sample Matrix:	Soil	Report Date:	11/12/98

HALOGENATED VOLATILE ORGANICS

EPA METHOD 8010

Client Sample No.:	Concentration, µg/kg				Method Detection Limit, µg/kg
	VW-1-P @10'	VW-1-P @20'	VW-1-P @30'	VW-2-P @10'	
Sierra Sample No.:	17593	17595	17597	17599	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	1900*	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	3.2	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1 . 50*	1	1	1	QC Limits
% Surrogate Recovery:					
1-chloro-2-fluorobenzene	110	95	100	88	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled: 11/2/98 Date Received: 11/6/98 Date Prepared: 11/10/98 Date Analyzed: 11/10/98 to 11/11/98 Analyst: SM
Sierra Project No.: 9811-123 Client Project ID: 1485-J2 / Fleetwood Sample Matrix: Soil	Report Date: 11/12/98	

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Client Sample No.:	Concentration, µg/kg				Method Detection Limit, µg/kg
	VW-2-P @20'	VW-2-P @30'	VP-1-P @10'	VP-1-P @20'	
Sierra Sample No.:	17601	17603	17605	17607	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	ND	ND	14000*	1100*	3.0
1,1,1-Trichloroethane	ND	ND	6.4	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1 . 50*	1 . 50*	QC Limits
% Surrogate Recovery: 1-chloro-2-fluorobenzene	90	84	120	120	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled:	11/2/98
		Date Received:	11/6/98
		Date Prepared:	11/10/98
		Date Analyzed:	11/10/98 to 11/11/98
Sierra Project No.:	9811-123	Analyst:	SM
Client Project ID:	1485-J2 - Fleetwood		
Sample Matrix:	Soil	Report Date:	11/12/98

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Client Sample No.:	Concentration, µg/kg				Method Detection Limit, µg/kg
	VP-1-P @30'	VP-1-P @40'	VP-1-P @50'	VP-1-P @55'	
Sierra Sample No.:	17609	17611	17612	17613	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	ND	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1	1	
% Surrogate Recovery:					QC Limits
1-chloro-2-fluorobenzene	85	92	86	88	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled: 11/2/98
		Date Received: 11/6/98
		Date Prepared: 11/10/98
		Date Analyzed: 11/10/98 to 11/11/98
		Analyst: SM
Sierra Project No.: 9811-123		Report Date: 11/12/98
Client Project ID: 1485-J2 / Fleetwood		
Sample Matrix: Soil		

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Client Sample No.:	Concentration, µg/kg				Method Detection Limit, µg/kg
	VP-2-P @10'	VP-2-P @20'	VP-2-P @30'	VP-2-P @40'	
Sierra Sample No.:	17615	17617	17619	17620	
COMPOUNDS:					
Bromodichloromethane	ND	ND	ND	ND	3.0
Bromoform	ND	ND	ND	ND	3.0
Chloroform	ND	ND	ND	ND	3.0
Chlorodibromomethane	ND	ND	ND	ND	3.0
Bromomethane	ND	ND	ND	ND	3.0
Carbon Tetrachloride	ND	ND	ND	ND	3.0
Chlorobenzene	ND	ND	ND	ND	3.0
Chloroethane	ND	ND	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	ND	ND	3.0
1,1-Dichloroethane	ND	ND	ND	ND	3.0
1,2-Dichloroethane	ND	ND	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	ND	ND	3.0
1,2-Dichloropropane	ND	ND	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	ND	ND	3.0
Methylene Chloride	ND	ND	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	3.0
Tetrachloroethylene	ND	ND	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	ND	ND	3.0
Trichloroethylene	ND	ND	ND	ND	3.0
Trichlorofluoromethane	ND	ND	ND	ND	3.0
Vinyl Chloride	ND	ND	ND	ND	3.0
Dilution Factor	1	1	1	1	QC Limits
% Surrogate Recovery:					
1-chloro-2-fluorobenzene	76	100	86	83	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation 2130 E. Orange Wood Anaheim, CA 92806		Date Sampled:	11/2/98
		Date Received:	11/6/98
		Date Prepared:	11/10/98
		Date Analyzed:	11/10/98 to 11/11/98
Sierra Project No.:	9811-123	Analyst:	SM
Client Project ID:	1485-J2 / Fleenwood		
Sample Matrix:	Soil	Report Date:	11/12/98

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Client Sample No.:	Concentration, µg/kg		Method Detection Limit, µg/kg
	VP-2-P @ 50'	VP-2-P @ 60'	
Sierra Sample No.:	17621	17622	
COMPOUNDS:			
Bromodichloromethane	ND	ND	3.0
Bromoform	ND	ND	3.0
Chloroform	ND	ND	3.0
Chlorodibromomethane	ND	ND	3.0
Bromomethane	ND	ND	3.0
Carbon Tetrachloride	ND	ND	3.0
Chlorobenzene	ND	ND	3.0
Chloroethane	ND	ND	3.0
2-Chloroethylvinyl Ether	ND	ND	3.0
1,2-Dichlorobenzene	ND	ND	3.0
1,3-Dichlorobenzene	ND	ND	3.0
1,4-Dichlorobenzene	ND	ND	3.0
1,1-Dichloroethane	ND	ND	3.0
1,2-Dichloroethane	ND	ND	3.0
1,1-Dichloroethylene	ND	ND	3.0
1,2-Dichloroethylene (T)	ND	ND	3.0
1,2-Dichloropropane	ND	ND	3.0
1,3-Dichloropropane (CIS)	ND	ND	3.0
1,3-Dichloropropane (T)	ND	ND	3.0
Methylene Chloride	ND	ND	3.0
1,1,2,2-Tetrachloroethane	ND	ND	3.0
Tetrachloroethylene	ND	ND	3.0
1,1,1-Trichloroethane	ND	ND	3.0
1,1,2-Trichloroethane	ND	ND	3.0
Trichloroethylene	ND	ND	3.0
Trichlorofluoromethane	ND	ND	3.0
Vinyl Chloride	ND	ND	3.0
Dilution Factor	1	1	
% Surrogate Recovery:			QC Limits
1-chloro-2-fluorobenzene	95	92	35-135

Quality Assurance/Quality Control Data							
QC Sample ID: 9811-123-17577							
Compounds	LCS % Rec.	QC Limits	Spike % Rec.	Spike Dup % Rec.	QC Limits	RPD	QC Limits
1,1 - Dichloroethane	103	80-120	100	99	59-111	2.5	0-30
Carbon Tetrachloride	99	80-120	97	93	55-120	2.5	0-30
Bromoform	91	80-120	80	79	54-127	1.0	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation		Date Sampled:	11/18/98
2130 E. Orange Wood		Date Received:	11/19/98
Anaheim, CA 92806		Date Prepared:	11/20/98
Sierra Project No.:	9811-331	Date Analyzed:	11/20/98
Client Project ID:	N.Hollywood	Analyst:	SM
Sample Matrix:	Vapor	Report Date:	11/24/98

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Concentration								
Client Sample No.:	VW1-P/30min		VWP-2-P/5min		VWP-2-P/30min		Method	
Sierra Sample No.:	18455		18456		18457		Detection	
COMPOUNDS:	µg/l	ppm(v/v)	µg/l	ppm(v/v)	µg/l	ppm(v/v)	µg/l	ppm
Bromodichloromethane	ND	ND	ND	ND	ND	ND	0.5	0.074
Bromoform	ND	ND	ND	ND	ND	ND	0.5	0.05
Chloroform	ND	ND	ND	ND	ND	ND	0.5	0.10
Chlorodibromomethane	ND	ND	ND	ND	ND	ND	0.5	0.074
Bromomethane	ND	ND	ND	ND	ND	ND	0.5	0.13
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	0.5	0.08
Chlorobenzene	ND	ND	ND	ND	ND	ND	0.5	0.11
Chloroethane	ND	ND	ND	ND	ND	ND	0.5	0.19
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND	0.5	0.11
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.5	0.083
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.5	0.083
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	0.5	0.083
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	0.5	0.12
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	0.5	0.12
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	0.5	0.13
1,2-Dichloroethylene (T)	ND	ND	ND	ND	ND	ND	0.5	0.13
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	0.5	0.11
1,3-Dichloropropene (CIS)	ND	ND	ND	ND	ND	ND	0.5	0.11
1,3-Dichloropropene (T)	ND	ND	ND	ND	ND	ND	0.5	0.11
Methylene Chloride	ND	ND	ND	ND	ND	ND	0.5	0.14
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	0.5	0.07
Tetrachloroethylene	150	22	11	1.6	7.9	1.2	0.5	0.074
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	0.5	0.09
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	0.5	0.09
Trichloroethylene	ND	ND	ND	ND	ND	ND	0.5	0.09
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	0.5	0.09
Vinyl Chloride	ND	ND	ND	ND	ND	ND	0.5	0.20
Dilution Factor	1		1		1		QC Limits	
% Surrogate Recovery:							60-130	
1-Chloro-2-fluorobenzene	80		75		79			

Quality Assurance/Quality Control Data					
QC Sample ID:		9811-170-12795			
Compounds	LCS % Rec.	QC Limits	Compounds	Sample Dup RPD	QC Limits
1,1 - Dichloroethane	92	80-120	1,1-DCE	8	0-30
Carbon Tetrachloride	92	80-120	Chloroform	6.5	0-30
Bromoform	98	80-120	PCE	2.5	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

The Park Corporation		Date Sampled:	11/18/98
2130 E. Orange Wood		Date Received:	11/19/98
Anaheim, CA 92806		Date Prepared:	11/20/98
Sierra Project No.: 9811-331		Date Analyzed:	11/20/98
Client Project ID: N.Hollywood		Analyst:	SM
Sample Matrix: Vapor		Report Date:	11/24/98

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010

Concentration								
Client Sample No.:	VW2-P/5min		VW2-P/30min				Method	
Sierra Sample No.:	18458		18459				Detection	
	µg/l	ppm(v/v)	µg/l	ppm(v/v)	µg/l	ppm(v/v)	µg/l	ppm
COMPOUNDS:								
Bromodichloromethane	ND	ND	ND	ND			0.5	0.074
Bromoform	ND	ND	ND	ND			0.5	0.05
Chloroform	ND	ND	ND	ND			0.5	0.10
Chlorodibromomethane	ND	ND	ND	ND			0.5	0.074
Bromomethane	ND	ND	ND	ND			0.5	0.13
Carbon Tetrachloride	ND	ND	ND	ND			0.5	0.08
Chlorobenzene	ND	ND	ND	ND			0.5	0.11
Chloroethane	ND	ND	ND	ND			0.5	0.19
2-Chloroethylvinyl Ether	ND	ND	ND	ND			0.5	0.11
1,2-Dichlorobenzene	ND	ND	ND	ND			0.5	0.083
1,3-Dichlorobenzene	ND	ND	ND	ND			0.5	0.083
1,4-Dichlorobenzene	ND	ND	ND	ND			0.5	0.083
1,1-Dichloroethane	ND	ND	ND	ND			0.5	0.12
1,2-Dichloroethane	ND	ND	ND	ND			0.5	0.12
1,1-Dichloroethylene	ND	ND	ND	ND			0.5	0.13
1,2-Dichloroethylene (T)	ND	ND	ND	ND			0.5	0.13
1,2-Dichloropropane	ND	ND	ND	ND			0.5	0.11
1,3-Dichloropropene (CIS)	ND	ND	ND	ND			0.5	0.11
1,3-Dichloropropene (T)	ND	ND	ND	ND			0.5	0.11
Methylene Chloride	ND	ND	ND	ND			0.5	0.14
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND			0.5	0.07
Tetrachloroethylene	6.9	1.0	8.7	1.3			0.5	0.074
1,1,1-Trichloroethane	ND	ND	ND	ND			0.5	0.09
1,1,2-Trichloroethane	ND	ND	ND	ND			0.5	0.09
Trichloroethylene	ND	ND	ND	ND			0.5	0.09
Trichlorofluoromethane	ND	ND	ND	ND			0.5	0.09
Vinyl Chloride	ND	ND	ND	ND			0.5	0.20
Dilution Factor	1		1				QC Limits	
% Surrogate Recovery:							60-130	
1-Chloro-2-fluorobenzene	76		76					

Quality Assurance/Quality Control Data					
QC Sample ID: 9811-170-12795					
Compounds	LCS % Rec.	QC Limits	Compounds	Sample Dup RPD	QC Limits
1,1 - Dichloroethane	92	80-120	1,1-DCE	8	0-30
Carbon Tetrachloride	92	80-120	Chloroform	6.5	0-30
Bromoform	98	80-120	PCE	2.5	0-30

ND means Not Detected

Reporting Limit (RL) = Method Detection Limit (MDL) x Dilution Factor

PROCEDURE FOR CALCULATING THE QUANTITY OF HYDROCARBON VAPORS FROM VES REMEDIATION SITES

The equation used to estimate the hydrocarbon vapor recovery rates has been modified from Subsurface Venting of Hydrocarbon Vapors from an Underground Aquifer, API Publication No. 4410, September, 1985, and is as follows:

$$V_r \text{ (lb/hr)} = \frac{(V_c \text{ ppmv}) (\text{Molecular Wt of Compound}) [Q(\text{SCF/hr})]}{(10^6 \text{ ppmv}) (385.36 \text{ SCF})}$$

or

$$V_r \text{ (lb/hr)} = (V_c) (Q) (\text{Constant for compound})$$

Where:

- V_r = Vapor recovery rate (lb/hr)
- V_c = Vapor concentration (ppmv)
- Q = Venting rate (SCF/hr)

COMPOUND	MOLECULAR WEIGHT	CONSTANT
BENZENE	78.11	2.03×10^{-7}
GASOLINE	86.16	2.24×10^{-7}
DICHLOROETHANE	98.96	2.57×10^{-7}
DICHLOROETHENE	96.94	2.52×10^{-7}
TOLUENE	92.14	2.39×10^{-7}
TETRACHLOROETHENE	165.83	4.30×10^{-7}
1,1,1-TRICHLOROETHANE	133.40	3.46×10^{-7}
TRICHLOROETHENE	131.39	3.41×10^{-7}
VINYL CHLORIDE	62.50	1.62×10^{-7}
XYLENE (TOTAL)	140.61	3.65×10^{-7}

ESTIMATED HYDROCARBON VAPOR RECOVERY RATE FOR VWP-1-P (lbs/day)

$$\begin{aligned}\text{Days of Operation} &= \text{Hours of Operation}/24 \\ &= 0.5 \text{ hours}/24 \text{ hours per day} \\ &= 0.021 \text{ days}\end{aligned}$$

Average Halogenated Volatile Organic Compounds (HVOCs) concentration into treatment unit = 9.1 ppmv

$$\text{Average Flow Rate} = 219 \text{ cfm}$$

$$\text{Vr (lbs/hour)} = 9.1 \text{ ppmv} \times 219 \text{ cfm} \times 4.30 \times 10^{-7} \times 60 \text{ min/hr} = 0.052 \text{ lbs/hr}$$

$$\text{Vr (lbs/hour)} \times 24 \text{ hrs/day} = 0.052 \text{ lbs/hr} \times 24 \text{ hrs/day} = 1.234 \text{ lbs/day}$$

ESTIMATED HYDROCARBON VAPOR RECOVERY RATE FOR VWP-2-P (lbs/day)

$$\begin{aligned}\text{Days of Operation} &= \text{Hours of Operation}/24 \\ &= 0.5 \text{ hours}/24 \text{ hours per day} \\ &= 0.021 \text{ days}\end{aligned}$$

Average Halogenated Volatile Organic Compounds (HVOCs) concentration into treatment unit = 1.2 ppmv

$$\text{Average Flow Rate} = 199 \text{ cfm}$$

$$\text{Vr (lbs/hour)} = 1.2 \text{ ppmv} \times 199 \text{ cfm} \times 4.30 \times 10^{-7} \times 60 \text{ min/hr} = 0.006 \text{ lbs/hr}$$

$$\text{Vr (lbs/hour)} \times 24 \text{ hrs/day} = 0.006 \text{ lbs/hr} \times 24 \text{ hrs/day} = 0.148 \text{ lbs/day}$$

ESTIMATED HYDROCARBON VAPOR RECOVERY RATE FOR VW-1-P (lbs/day)

$$\begin{aligned}\text{Days of Operation} &= \text{Hours of Operation}/24 \\ &= 0.5 \text{ hours}/24 \text{ hours per day} \\ &= 0.021 \text{ days}\end{aligned}$$

Average Halogenated Volatile Organic Compounds (HVOCs) concentration into treatment unit = 22 ppmv

$$\text{Average Flow Rate} = 205 \text{ cfm}$$

$$\text{Vr (lbs/hour)} = 22 \text{ ppmv} \times 205 \text{ cfm} \times 4.30 \times 10^{-7} \times 60 \text{ min/hr} = 0.116 \text{ lbs/hr}$$

$$\text{Vr (lbs/hour)} \times 24 \text{ hrs/day} = 0.116 \text{ lbs/hr} \times 24 \text{ hrs/day} = 2.793 \text{ lbs/day}$$

ESTIMATED HYDROCARBON VAPOR RECOVERY RATE FOR VW-2-P (lbs/day)

$$\begin{aligned}\text{Days of Operation} &= \text{Hours of Operation}/24 \\ &= 0.5 \text{ hours}/24 \text{ hours per day} \\ &= 0.021 \text{ days}\end{aligned}$$

Average Halogenated Volatile Organic Compounds (HVOCs) concentration into treatment unit = 1.3 ppmv

$$\text{Average Flow Rate} = 226 \text{ cfm}$$

$$V_r (\text{lbs/hour}) = 1.3 \text{ ppmv} \times 226 \text{ cfm} \times 4.30 \times 10^{-7} \times 60 \text{ min/hr} = 0.008 \text{ lbs/hr}$$

$$V_r (\text{lbs/hour}) \times 24 \text{ hrs/day} = 0.008 \text{ lbs/hr} \times 24 \text{ hrs/day} = 0.192 \text{ lbs/day}$$